# CONSTRUCTION NEWS

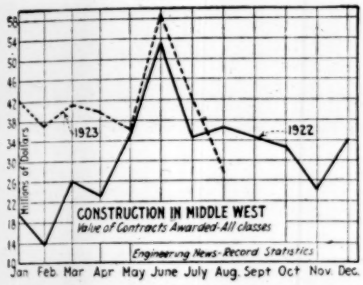
*Engineering News-Record, September 20, 1923*

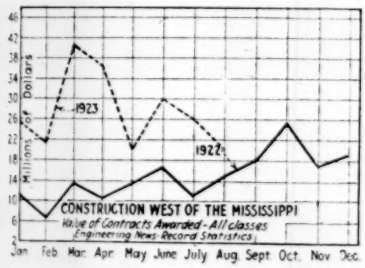
## The Construction Barometer

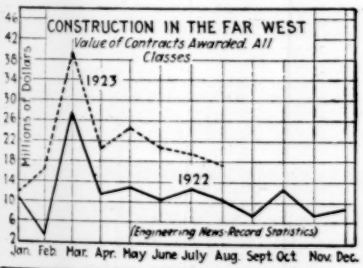
### *Value of August Contracts Lower Than July—Permits Gain—Prices Stable*

ALTHOUGH August contracts fell off from 5 to 33 per cent from the month preceding, in the various sections of the country, the far western group and the states immediately west of the Mississippi showed substantial gains over August, 1922. New England and the Far West, however, were the only sections conforming to the 1922 trend, as shown by the accompanying charts.

Building permits in 252 comparable cities, according to S. W. Straus & Co., totaled $256,722,581 for August; $241,393,803 for July and $233,882,261 for August, 1922. This represents an increase of 10 per cent over August, 1922, and 6 per cent over July of the current year. The gain over July is particularly significant in view of the fact that during the last ten years August permits have shown a decrease from July each year excepting three.


CONSTRUCTION IN MIDDLE WEST
Value of Contracts Awarded-All classes
1923
1922
Millions of Dollars
Engineering News-Record Statistics
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION WEST OF THE MISSISSIPPI
Value of Contracts Awarded - All classes
Engineering News-Record Statistics
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN THE FAR WEST
Value of Contracts Awarded All Classes
1923
1922
Millions of Dollars
(Engineering News-Record Statistics)
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

### *E. N.-R. Statistics*

**VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES**

| Week Ended | Public Work | Private Work | Total Contracts |
|---|---|---|---|
| Aug. 30 | $12,669,000 | $15,178,000 | $27,847,000 |
| Sept. 6 | 28,163,000 | 17,205,000 | 45,368,000 |
| Sept. 13 | 27,304,000 | 21,935,000 | 49,239,000 |
| 3 Weeks | $68,136,000 | $54,318,000 | $122,454,000 |

**LARGE BUILDING CONTRACTS—NUMBER AND VALUE**

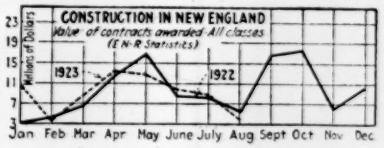
| Week Ended | Public No. | Public Work | Private No. | Private Work |
|---|---|---|---|---|
| Aug. 30 | 8 | $1,496,000 | 25 | $12,342,000 |
| Sept. 6 | 16 | 9,563,000 | 16 | 8,019,000 |
| Sept. 13 | 9 | 2,955,000 | 30 | 13,607,000 |
| 3 Weeks | 33 | $14,014,000 | 71 | $33,968,000 |

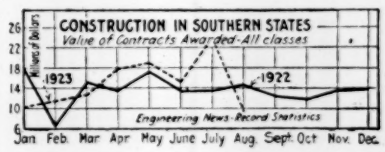
**NUMBER OF LARGE JOBS NOW OUT FOR BIDS**

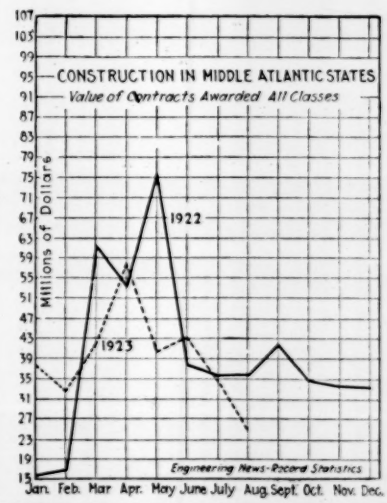
| Week Ended | Public: Private | Public: All | Public: Streets and Roads | Public: Waterworks and Sewers | All Buildings |
|---|---|---|---|---|---|
| Aug. 30 | 28 | 189 | 66 | 33 | 51 |
| Sept. 6 | 35 | 197 | 83 | 32 | 42 |
| Sept. 13 | 36 | 178 | 67 | 39 | 36 |

**PRICES OF BASIC MATERIALS FIRM**

| | Quoted on Sept. 20, at | Price Was | On |
|---|---|---|---|
| Structurals, Pittsburgh, 100 lb. | $2.50 | @2.60 | June 21 |
| Cement, Chi., net bbl. | 2.20 | 2.05 | Feb. 1 |
| Pine, N. Y., M.ft. | 61.00 | 63.00 | Sept. 6 |
| Fir, San Fran., M.ft. | 38.00 | 41.00 | Aug. 30 |
| Common labor | .54 | .53 | June 28 |


CONSTRUCTION IN NEW ENGLAND
Value of contracts awarded All classes
(E.N.R. Statistics)
1923
1922
Millions of Dollars
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN SOUTHERN STATES
Value of Contracts Awarded-All classes
1923
1922
Millions of Dollars
Engineering News-Record Statistics
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.


CONSTRUCTION IN MIDDLE ATLANTIC STATES
Value of Contracts Awarded All Classes
1922
1923
Millions of Dollars
Engineering News-Record Statistics
Jan. Feb. Mar. Apr. May June July Aug. Sept. Oct. Nov. Dec.

## PROPOSALS

**For proposals Advertised see the pages immediately following the "Construction News" Section.**

### WATERWORKS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 21 | Trenton, N. J. | Sept. 13 |
| Sept. 24 | Lansing, Mich. | Sept. 20 |
| Sept. 25 | Ft. Worth, Tex. | Sept. 6 |
| Sept. 25 | Marengo, Ill. Adv. Sept. 20. | Sept. 20 |
| Sept. 26 | Providence, R. I. | Aug. 30 |
| Sept. 27 | Bordentown, N. J. | Sept. 6 |
| Sept. 27 | Galveston, Tex. | Sept. 13 |
| Sept. 28 | Cyril, Okla. | Sept. 20 |
| Sept. 28 | Hawthorne, N. J. | Sept. 20 |
| Sept. 29 | Ft. Worth, Tex. | Sept. 20 |
| Oct. 2 | Wallington, N. J. | Sept. 13 |
| Oct. 3 | Portland, Ore. | Sept. 13 |
| Oct. 4 | Stoneham (Boston P. O.), Mass. | Sept. 13 |
| Oct. 5 | New Bedford, Mass. Adv. Sept. 20. | Sept. 20 |
| Oct. 8 | Millbank, S. D. | Sept. 20 |
| Oct. 9 | Toronto, Ont. | Sept. 13 |
| Oct. 9 | Kings Mountain, N. C. Adv. Sept. 13 and 20. | Sept. 20 |
| Oct. 10 | Lewiston, Idaho Adv. Sept. 20. | Sept. 20 |
| Oct. 11 | Danville, Va. Adv. Sept. 13 and 20. | Sept. 13 |
| Oct. 23 | Buffalo, N. Y. Adv. Sept. 20. | Sept. 20 |

### SEWERS

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 24 | St. Petersburg, Fla. | Aug. 23 |
| Sept. 24 | Leesburg, Fla. | Sept. 6 |
| Sept. 25 | Montclair, N. J. Adv. Sept. 13 and 20. | Sept. 20 |
| Sept. 25 | Ft. Worth, Tex. | Sept. 20 |
| Sept. 25 | Miami, Fla. | Sept. 20 |
| Sept. 26 | Berwick, Pa. Adv. Sept. 6 to 20. | Sept. 6 |
| Sept. 26 | Baltimore, Md. | Sept. 20 |
| Sept. 27 | Cleveland, O. | Sept. 20 |
| Oct. 1 | Perth Amboy, N. J. Adv. Sept. 20. | Sept. 20 |
| Oct. 9 | Bluefield, W. Va. Adv. Sept. 13 and 20. | Sept. 13 |
| Oct. 9 | Roxboro, N. C. | Sept. 20 |
| Nov. 1 | Fort Erie, Ont. | Aug. 23 |

### WASTE DISPOSAL

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 25 | Indianapolis, Ind. | Sept. 13 |

### BRIDGES

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 24 | New Jersey | Sept. 6 |
| Sept. 24 | York, Pa. | Sept. 13 |
| Sept. 25 | Michigan | Sept. 13 |
| Sept. 25 | Greenfield, Ia. | Sept. 20 |
| Sept. 26 | Minnesota | Sept. 13 |
| Sept. 26 | Illinois | Sept. 20 |

| Bids Close | | See Eng. News-Record |
|---|---|---|
| Sept. 27 | Chicago, Ill. | Sept. 6 |
| Sept. 28 | Oil City, Pa. | Sept. 6 |
| Oct. 1 | Salina, Calif. | Sept. 20 |
| Oct. 2 | Mermentau, Mich. | Aug. 30 |
| Oct. 2 | Johnstown, Pa. Adv. Sept. 13 and 20. | Sept. 13 |
| Oct. 2 | Louisiana | Sept. 13 |
| Oct. 4 | Lancaster, S. C. | Sept. 20 |
| Oct. 9 | Alabama | Sept. 20 |
| Oct. 10 | Wheeler, S. D. Adv. Sept. 20. | Sept. 20 |
| Oct. 11 | Louisiana | Sept. 20 |
| Oct. 16 | Clearwater, Fla. Adv. Sept. 13 and 20. | Sept. 13 |
| Nov. 30 | Sydney, Australia | Apr. 19 |

## RAILWAYS

| | | |
|---|---|---|
| Oct. 3 | California | Sept. 13 |
| Mar. 18 | New Zealand Adv. Sept. 20. | Sept. 20 |

## EXCAVATION, DRAINAGE IRRIGATION

| | | |
|---|---|---|
| Sept. 24 | Macdowel, Calif | Sept. 20 |
| Sept. 27 | Riverhead, N. Y. Adv. Sept. 13 and 20. | Sept. 13 |
| Sept. 27 | Fayette, Ala. | Sept. 20 |
| Sept. 27 | Winfield, Ala. | Sept. 20 |
| Oct. 1 | Benton, Mo. | Sept. 13 |
| Oct. 1 | Edinburgh, Tex. | Sept. 20 |
| Oct. 2 | Madison, Wis. | Sept. 20 |
| Oct. 5 | Hamilton, Mont. Adv. Sept. 20. | Sept. 20 |
| Oct. 10 | Elkhorn, Wis. | Sept. 20 |

## STREETS AND ROADS

| | | |
|---|---|---|
| Sept. 22 | Norwalk, Conn. | Sept. 13 |
| Sept. 24 | Carrollton, Miss. | Aug. 30 |
| Sept. 24 | Bronson, Kan. | Sept. 6 |
| Sept. 24 | Leesburg, Fla | Sept. 6 |
| Sept. 24 | Asbury Park, N. J. | Sept. 6 |
| Sept. 24 | Sebring, Fla. | Sept. 20 |
| Sept. 24 | Ft. Scott, Kan. | Sept. 20 |
| Sept. 25 | Independence, Kan. | Sept. 6 |
| Sept. 25 | St. Louis, Mo. | Sept. 6 |
| Sept. 25 | Louisiana | Sept. 13 |
| Sept. 25 | Washington | Sept. 13 |
| Sept. 25 | Maryland Adv. Sept. 20. | Sept. 20 |
| Sept. 25 | Tahlequah, Okla. | Sept. 20 |
| Sept. 25 | Winnetka, Ill. | Sept. 20 |
| Sept. 25 | Miami, Fla. | Sept. 20 |
| Sept. 25 | Ft. Worth, Tex. | Sept. 20 |
| Sept. 25 | New York, N. Y. | Sept. 20 |
| Sept. 25 | Long Island City, N. Y. | Sept. 20 |
| Sept. 26 | Kentucky | Aug. 23 |
| Sept. 26 | Kentucky | Aug. 30 |
| Sept. 26 | Minnesota | Sept. 6 |
| Sept. 26 | Aberdeen, Miss. | Sept. 13 |
| Sept. 26 | Kentucky | Sept. 13 |
| Sept. 26 | Cleveland, O. | Sept. 20 |
| Sept. 26 | Illinois | Sept. 20 |
| Sept. 26 | Brooklyn, N. Y. | Sept. 20 |
| Sept. 27 | Florida | Sept. 6 |
| Sept. 27 | Long Island City, N. Y. | Sept. 20 |
| Sept. 27 | Brooklyn, N. Y. | Sept. 20 |
| Sept. 28 | Topeka, Kan. | Sept. 13 |
| Sept. 28 | Brandon, Miss. | Sept. 20 |
| Sept. 28 | Montoursville, Pa. | Sept. 20 |
| Sept. 28 | Hillsboro, Tex. | Sept. 20 |
| Oct. 1 | Kelso, Wash. | Sept. 6 |
| Oct. 1 | Jeffersonville, Ind. | Sept. 20 |
| Oct. 1 | St. Paul, Minn. | Sept. 20 |
| Oct. 1 | Michigan | Sept. 20 |
| Oct. 1 | Water Valley, Miss. | Sept. 20 |
| Oct. 1 | Jacksonville, Fla. | Sept. 20 |
| Oct. 2 | St. Louis, Mo. | Sept. 6 |
| Oct. 3 | Michigan | Sept. 20 |
| Oct. 5 | Topeka, Kan. | Sept. 20 |
| Oct. 9 | Alabama | Sept. 20 |
| Oct. 9 | Barstow, Tex. | Sept. 20 |
| Oct. 10 | Belvidere, N. J. Adv. Sept. 20. | Sept. 20 |
| Oct. 11 | Louisiana | Sept. 20 |
| Oct. 15 | Weston, W. Va. | Sept. 20 |
| Oct. 16 | Clearwater, Fla. Adv. Sept. 13 and 20. | Sept. 13 |

## INDUSTRIAL WORK

| | | |
|---|---|---|
| Sept. 25 | Phila., Pa. | Sept. 20 |
| Sept. 28 | Litchfield, Minn. | Sept. 20 |
| Oct. 9 | Louisville, Ky. | Sept. 20 |

## BUILDINGS

| | | |
|---|---|---|
| Sept. 23 | Atlantic City, N. J. | Aug. 30 |
| Sept. 24 | Iola, Kan. | Sept. 20 |
| Sept. 25 | New York, N. Y. | Sept. 13 |
| Sept. 25 | Dearborn, Mich. | Sept. 13 |
| Sept. 27 | Phila., Pa. | Sept. 20 |
| Sept. 27 | Mandan, N. D. | Sept. 20 |
| Sept. 28 | Institute, W. Va. | July 26 |
| Sept. 28 | Pruntytown (Grafton P. O.), W. Va. | Aug. 2 |
| Sept. 28 | Montgomery, W. Va. | Aug. 9 |
| Sept. 28 | Institute, W. Va. | Aug. 9 |
| Sept. 28 | Huntington, W. Va. | Sept. 6 |
| Sept. 28 | Duluth, Minn. | Sept. 13 |
| Sept. 28 | Salisbury, Md. | Sept. 20 |
| Sept. 28 | New York, N. Y. | Sept. 20 |
| Oct. 1 | Memphis, Tenn. | Sept. 6 |
| Oct. 2 | Upper Flushing (Flushing P. O.), N. Y. | Sept. 20 |
| Oct. 2 | Flushing, N. Y. | Sept. 20 |
| Oct. 3 | Buffalo, N. Y. | Sept. 20 |
| Oct. 8 | Wichita, Kan. | Sept. 6 |
| Oct. 8 | Fayetteville, N. C. | Sept. 20 |
| Oct. 8 | Syracuse, N. Y. | Sept. 20 |
| Oct. 9 | Louisville, Ky. | Sept. 13 |
| Oct. 9 | Trenton, N. J. | Sept. 20 |
| Oct. 10 | Birmingham, Ala. | Aug. 30 |
| Oct. 10 | Virginia, Minn. | Sept. 13 |
| Oct. 15 | Cleveland, O. | Sept. 20 |
| Oct. 15 | Waseca, Minn. | Sept. 20 |
| Oct. 20 | Louisville, Ky. | Sept. 13 |
| Nov. 1 | Ft. Worth, Tex. | July 12 |
| Nov. 1 | Dallas, Tex. | Aug. 2 |

## FEDERAL GOVERNMENT WORK

| | | |
|---|---|---|
| Sept. 24 | Road Repair—Ft. Riley, Kan. | Sept. 6 |
| Sept. 24 | Generator Unit, etc. — Buffalo, N. Y. | Sept. 13 |
| Sept. 24 | Steel and Iron Work—Louisville, Ky. | Sept. 20 |
| Sept. 25 | Dredging—Galveston, Tex. Adv. Aug. 30 to Sept. 20. | Aug. 30 |
| Sept. 25 | Dredging — Providence, R. I. Adv. Aug. 30 to Sept. 20. | Aug. 30 |
| Sept. 26 | Changes—Boston, Mass. | Sept. 13 |
| Sept. 28 | Breakwater — Milwaukee, Wis. Adv. Aug. 30 to Sept. 20. | Aug. 30 |
| Sept. 28 | Mailing Vestibule—Grand Junction, Colo. | Sept. 6 |
| Sept. 29 | Outside Service Lines—Dawson Springs, Ky. | Sept. 6 |
| Oct. 1 | Repairs to Roof — Phila., Pa. Adv. Sept. 6 to 20. | Sept. 20 |
| Oct. 3 | Gates, Hoists, etc.—Denver, Colo. | Sept. 6 |
| Oct. 3 | Superstructure — Dunkirk, N. Y. Adv. Sept. 6 to 20. | Sept. 6 |
| Oct. 4 | Recreation Building, etc. — Wash., D. C. Adv. Sept. 13 and 20. | Sept. 13 |
| Oct. 8 | Extension, etc.—Waterloo, Ia. | Sept. 20 |
| Oct. 10 | Garage, etc.—Bar Harbor, Me. | Sept. 20 |
| Oct. 15 | Breakwater—Hilo, H. T. Adv. Aug. 23 to Sept. 20. | Aug. 23 |
| Oct. 16 | Buildings, etc.—North Little Rock, Ark. Adv. Sept. 20. | Sept. 20 |
| Oct. 16 | Mechanical Equipment—Carville, La. | Sept. 20 |
| Oct. 16 | Buildings—Carville, La. Adv. Sept. 20. | Sept. 20 |
| Oct. 17 | Dredging — Bridgeport, Conn. Adv. Sept. 20. | Sept. 20 |
| Oct. 17 | Post Office—Dawson, Ga. Adv. Sept. 20. | Sept. 20 |
| Oct. 17 | Radio Masts—Puget Sound, Wash. | Sept. 20 |
| Oct. 18 | Dwellings — Newburg, Ind. Adv. Sept. 20. | Sept. 20 |
| Oct. 20 | Pontoons, etc.—Cincinnati, O. Adv. Sept. 20. | Sept. 20 |
| Nov. 1 | Pipe Line Dredge—Chicago, Ill. Adv. Sept. 6 to 20. | Sept. 6 |
| Nov. 1 | Catamarans, etc.—Chicago, Ill. Adv. Sept. 20. | Sept. 20 |
| Nov. 7 | Extension—Pearl Harbor, H. T. | Sept. 20 |

## MISCELLANEOUS

| | | |
|---|---|---|
| Sept. 24 | Grapple Dredge — Phila., Pa. | Sept. 20 |
| Sept. 25 | Culvert—St. Louis, Mo. | Aug. 30 |
| Sept. 25 | Sea-wall—New York, N. Y. | Sept. 20 |
| Sept. 27 | Paving Brick—Cleveland, O. | Sept. 20 |
| Sept. 28 | Cement—Jefferson City, Mo. | Aug. 23 |
| Sept. 28 | Levee—Portage, Wis. | Sept. 20 |
| Sept. 28 | Railroad Duct Line—New York, N. Y. | Sept. 20 |
| Sept. 30 | Fill—Salisbury Beach (Newburyport P. O.), Mass. Adv. Sept. 20. | Sept. 20 |
| Oct. 1 | Gravel—Baton Rouge, La. | Sept. 13 |
| Oct. 2 | Wharf—Harrop, B. C. | Sept. 13 |
| Oct. 2 | Subway—Brooklyn, N. Y. | Sept. 20 |
| Oct. 6 | Volt Insulators—Melbourne, Australia | Aug. 16 |
| Feb. 28 | Headworks — Wellington, New Zealand | May 24 |

**Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.**

# Waterworks

### PROPOSED WORK

**N. J., Lavallette** — Making plans well, pumping plant and equipment, distribution system, 3,600 ft. 2 in. w.i. pipe, 11,150 ft. 4 in., 3,834 ft. 6 in. and 5,400 ft. 8 in. c.i. pipe, etc. $75,000. Sherman & Sleeper, 507 Cooper St., Camden, engrs.

**N. J., Park Ridge**—Takes bids in January for water supply system. $200,000. H. J. Harder, 129 Market St., Paterson, engr.

**W. Va., Parkersburg**—Election soon to vote on $249,990 bonds for mechanical filtration plant, 6 filters 1 m.g. capacity each. J. M. Rice, Jones Law Bldg., Pittsburgh, Pa., engr. Noted Aug. 23.

**N. C., Salisbury** — Bd. Aldermen authorized issue of $35,000 for additional waterworks facilities.

**Fla., Orlando**—Defeated $525,000 bonds for extending and improving waterworks and electric light plants. Noted Aug. 30.

**La., Bossier**—Voted $125,000 bonds for water mains and sewerage system.

**La., Crowley** — Plans to extend water mains and build 1,500,000 gal. concrete reservoir. $115,000. I. B. Brossard, clk.

**O., Salem**—Plans waterworks plant and main extensions. $300,000.

**Mich., Iron Mountain**—Voted $390,000 bonds to purchase present waterworks and build filtration plant, also extend and improve distribution system. W. W. Dalzell, city engr.

**Ill., McLeansboro**—Voted $24,000 bonds for 400,000 gal. filter, 3,000 ft. 4 in. pipe, engine and generator. Total with cash previously available, $31,500. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs. Noted Jan. 25.

**Ill., Shelbyville**—Making plans 8-10 mi. 4-12 in. mains, fire hydrants, 150,000 gal. steel tank and tower, 2 motor driven pumps, etc. W. A. Fuller Co., 1917 Railway Exch., St. Louis, Mo., engrs.

**Minn., West Concord**—Rejected bids for mains. $16,000. Toltz, King & Day, 1410 Pioneer Bldg., St. Paul, engrs. Noted Aug. 30.

**Kan., Kansas City**—Oct. 23, to vote on $2,000,000 bonds for waterworks improvements. R. L. McAlpine, Kansas City, engr.

**Kan., Lenora**—City election soon to vote on $40,000 bonds for waterworks system. Ruckel Eng. Co., Interurban Bldg., Kansas City, engrs.

**Mo., Holden**—Sept. 25, to vote on $68,000 bonds doubling capacity of reservoir, replacing stand pipe with 100,000 gal. tank on 120 ft. tower, new mains, etc. Benham Eng. Co., Gumble Bldg., Kansas City, engrs. Noted June 28.

**Mo., New London**—Having preliminary plans prepared waterworks and distribution system. $40,000. W. B. Rollins Co., 521 Ry. Exch. Bldg., Kansas City, Mo., engrs.

**Mo., Norborne**—Election Oct. 2, to vote on $57,179 bonds for water plant, distribution mains and water softener, etc.; $33,428 bonds for lighting plants and lines. R. R. McBride, Kansas City engr.

**Tex., Ennis**—See "Dams."

**Okla., Enid**—Having preliminary plans prepared waterworks improvements, incl. obtaining additional 5 m. g. water supply, storage reservoirs, electric motor driven pumping equipment, pipe lines, etc. J. D. Bomford & Co., Masonic Temple, consult. engrs.

**Okla., Sayre**—Plan election to vote on $85,000 bonds waterworks improvements, sewers and power plants. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs.

**Ore., Oregon City**—Takes bids about Dec. 6 extension of main pipe line and probably new headgates. $25,000. Stevens & Koon, Spalding Bldg., Portland, engrs.

**Ont., Port Colborne**—Having plans prepared improving and extending waterworks, c.i. pipe, hydrants, reservoir, etc. $30,000. E. H. Darling, Home Bank Bldg., Hamilton, engr.

**Ont., Windsor**—Voted $150,000 bonds extending waterworks, c.i. mains, hydrants, etc. M. E. Brian, city engr.

### BIDS DESIRED

**Mass., New Bedford**—Oct. 5, by Water Bd., Municipal Bldg., constructing 1,300 ft. 60 in. intake pipe at Little Quittacas Pond.

Waterworks (Continued)

S. H. Taylor, supt. and clk.; adv. E. N.-R. Sept. 20.

**N. Y., Buffalo**—Oct. 23, by A. W. Kreinheder, comr. Pub. Wks., Municipal Bldg., furnishing centrifugal pumps and motors, switchboard and switchboard apparatus for low lift pumping station; meters, rate controllers, gages, chemical feed devices and other filter equipment and appurtenances for filter plant. G. C. Andrews, engr. Filtration Div. Fuller & McClintock, 170 Bway., New York, consult. engrs.; adv. E. N.-R. Sept. 20.

**N. J., Hawthorne**—Sept. 28 for pumping station, stand pipe and 4,000 ft. 8 in. mains. H. J. Harder, 129 Market St., Paterson, engr. Noted July 12.

**N. C., Kings Mountain**—Oct. 9, by Bd. Town Comrs., waterworks and sewerage extensions. Ludlow Engineers, Winston-Salem, engrs.; adv. E. N.-R., Sept. 20.

**Mich., Lansing**—Sept. 24, by Alvord, Burdick & Howson, engrs., 8 South Dearborn St., Chicago, drilling several wells for waterworks, here $40,000. Noted Aug. 30.

**Ill., Marengo**—Sept. 25, by Bd. Local Impvts., 3,700 ft. ¾ in. lead mains, corporation cocks, curb cocks and service boxes. A. L. Webster, Wheaton, engr.; adv. E. N.-R. Sept. 20.

**Ia., Dubuque**—Receiving bids for switchboard and transformers complete, and heating system, for Eagle Point Pumping station. Mead & Seastone, Journal Bldg., Madison, Wis., engrs.

**S. D., Milbank**—Oct. 8, water collection system incl. 9½ mi. mains. $125,000. Dakota Eng. Co., 309 Western Natl. Bank Bldg., Mitchell, engrs.

**Tex., Ft. Worth**—Sept. 29, four additional filter units, 1 m.g.d. each. D. L. Lewis, city engr. John B. Hawley, Cotton Exch. Bldg., consult. engr.

**Tex., Ft. Worth**—City Comn. taking bids equipment for Arlington Heights pumping station, two 700 g.p.m. centrifugal pumps, motors, piping, etc. $10,000. D. L. Lewis, city engr. Jno B. Hawley, Cotton Exch. Bldg., consult. engr.

**Okla., Cyril**—Sept. 28, by M. M. Rowe, clk., waterworks system, incl. deep well, pump and motor, tank, tower and pipe lines, 27,000 ft. 2-6 in. c.i. pipe. $31,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 13.

**Idaho, Lewiston** — Oct. 10 (change of date) at office J. R. Turnbull, city controller, improvements to waterworks system. Burns & McDonnell Eng. Co., 402 Interstate Bldg., Kansas City, Mo., engrs.; adv. E. N.-R. Sept. 20. Noted Aug. 23.

### BIDS RECEIVED

**Ind., Evansville** — Bd. Water Trustees, Sept. 6, 6 m.g. addition to water filtration plant, from A. Phelps & Sons, Knoxville, Ia., $98,480 for buildings and structures only; filter equipment from International Filter Co., 333 West 25th Pl., Chicago, $57,000. Noted Aug. 23.

**Ind., Evansville**—Pile foundation for 6 m.g. addition to water filtration plant, from A. Phelps & Sons, Knoxville, Ia., $37,000 (Raymond composite piles). MacArthur Concrete Pile & Foundation Co., Evansville, $34,800; Raymond Concrete Pile Co., 140 Cedar St., New York City, $42,700 (composite pre-cast piles). Noted Sept. 13.

**Mich., Lincoln Park** (Wyandotte P. O.)—See "Miscellaneous."

### CONTRACTS AWARDED

**N. J., Pennington** — For electrically operated pumping station, 10,550 lin.ft. 4, 6, 8 and 10 in. c.i. pipe, etc., to N. A. K. Bugbee Co., 205 East Hanover St., Trenton, $29,307. Noted Aug. 16.

**O., Cleveland**—Cuyahoga Co., 37,000 ft. 6-10 in. c.i. mains, Contr. 43, to J. Lewis, Sewer Contractors Exch., $139,000. Noted Sept. 13.

**Ill., Joy**—For 1,329 ft. 8 in., 2,885 ft. 6 in. and 11,558 ft. 4 in. Class D pipe, 33 fire hydrants, 28 double gate valves, etc., to H. J. Schmidt, Silvis, $21,701. Noted Aug. 2.

**Ill., Pittsfield**—For earth dam, concrete chamber, conduit spillway, filter and pumping plants, etc., to Nixon & Keeley, Murphy Bldg., East St. Louis Noted Aug. 16.

**Mich., Lincoln Park** (Wyandotte P. O.) —F. W. Harrison, village clk., R. F. D. 1, Wyandotte, furnishing 37,000 lin.ft. 6 and 8 in. c.i. pipe with hydrants, etc., to T. C. Brooks & Son, Jackson, $80,000.

**Wis., Phillips**—City will construct concrete reservoir and install water and sewer pipe, by day labor. $35,000. Pipe already purchased. F. Henry, Courthouse, engr. Noted Aug. 30.

**Kan., Cassoway**—See "Dams."

**Tex., McAllen** — Filtration plant, pump house and pumps, to E. L. Calhoun, Pharr, $20,000.

**Ore., Jennings Lodge**—Oak Lodge Water Dist., 27,000 ft. lap weld 8 in. pipe, 11,000 ft. 8 in. and 20,000 ft. 6 in. c.i. pipe, 20,000 ft. 4 in. and 90,000 ft. 2 in. steel pipe, 600,000 gal. concrete reservoir, 40,000 gal. tank on concrete base, 150 g.p.m. electric driven pump, to Parker-Schram Co., Couch Bldg., Portland, $177,000. Noted July 26.

**Calif., San Diego**—Constructing 1,200,000 gal. steel stand pipe for water distributing system, to Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., $69,150. Noted Sept. 13.

## Sewers

### PROPOSED WORK

**Pa., Carlisle**—Election Nov. 8, to vote on $30,000 bonds for 4,000 ft. 24-54 in. vitr. and segment block storm sewers. H. D. Herbert, city mgr.

**N. C., Salisbury** — Bd. Aldermen authorized issue of $30,000 bonds for additional sewer facilities.

**Fla., Sanford**—Election Oct. 9, to vote on $80,000 bonds enlarging and extending sewerage system. F. T. Williams, Sanford, engr.

**La., Bossier**—See "Waterworks."

**Ky., Danville**—See "Streets and Roads."

**O, Canton**—Bd. Control takes bids about Oct. 1, sanitary sewer in Belden Ave. S. E., from Trunk Sewer 1 to 3rd St. S. E. $32,000. W. E. Sarver, city engr.

**Ill., Winchester**—Making surveys 8-12 in. sanitary sewers, disposal plant, settling tank, etc. $50,000-$60,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

**Kan., Atchison** — Making preliminary plans 3 blocks Big White Clay Creek open sewer. $75,000-$100,000.

**Kan., Wichita**—Making preliminary plans 31,000 ft. storm water sewer No. 20, known as Cleveland Ave. sewer, 12-27 in. vitr. clay pipe, and 30-54 in. segmental block. $200,000. P. L. Brockway, City Hall, engr.

**Neb., Howells**—Having plans prepared sanitary sewerage system. $25,000. Prince-Nixon Eng. Co., 501 Peters Trust Bldg., Omaha, engrs.

**Mo., Greenfield**—Sept. 18, to vote on $64,000 bonds for 11,000 ft. storm and sanitary sewers, disposal plant, etc. Engineer not announced.

**Mo., New London**—Having preliminary plans prepared disposal plant, storm and sanitary sewers. $30,000. W. B. Rollins Co., 521 Ry. Exch. Bldg., Kansas City, Mo., engrs.

**Mo., Norborne**—Election Oct. 2, to vote on $39,133 bonds for sewers and septic tank. R. R. McBride, Kansas City, engr.

**Okla., Sayre**—See "Waterworks."

**Mo., Unionville**—Voted $80,000 bonds for 9,000 ft. sewers. Engineer not announced.

**Mo., University** (St. Louis, P. O.)—Having preliminary plans prepared Public Sewer 1, 3,100 ft. 36 in. vitr. clay storm and sanitary sewers, $31,000; Pennsylvania Ave. Joint Sewer, 2,400 ft. 12-36 in. vitr. clay and 500 ft. 42 in. segmental block pipe, $18,000; Colby Ave. Joint Sewer, 2,400 ft. 10-54 in. vitr. clay and segmental block pipe, $22,000; Joint Sewer Dist. 26, 1,300 ft. 10-24 in. vitr. clay pipe, $12,000; Sewer Dist. 29, 800 ft. 10-12 in. vitr. clay pipe, $2,000. W. A. Heimbuecher, City Hall, engr.

**Tex., Edinburg**—See "Excavation, Drainage, Irrigation."

**Tex., Lubbock**—Election soon to vote on $500,000 bonds for storm sewers and paving various streets. A. Saunders, Lubbock, engr.

**Tex., Stamford**—Postponed opening bids for Imhoff tanks, etc. Will readvertise, $30,000. Jno. B. Hawley, Cotton Exch. Bldg., Ft. Worth, engr

**Calif., San Francisco** — City and San Francisco Co. plan. sewers in district bounded by Great Highway, Tarval St., Rivera and Ortega Aves. $35,000. M. M. O'Shaughnessy, city engr.

**Calif., San Jose**—Oct. 23, to vote on $400,000 bonds for sewers and sewage treatment plant. W. Popp, city engr. Noted June 21.

**Que., Outremont**—Soon takes bids constructing sewers. $51,259. E. T. Sampson, city clk.

**Ont., Birch Cliff**—Scarboro Twp. having plans prepared rein.-con. sewage disposal plant. $400,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

### BIDS DESIRED

**N. J., Montclair** — Sept. 25, by Town Comrs., Municipal Bldg., storm sewerage system. H. Trippett, clk.; adv. E. N.-R. Sept. 20.

**N. J., Perth Amboy**—Oct. 1, by City Council, City hall, for trunk sewers with necessary connections and appurtenances. A. Jennetty, street comr.; adv. E. N.-R. Sept. 20.

**Md., Baltimore**—Sept. 26, by Bd. Awards, 350 lin.ft. of 9 ft. 6 in. basket handle section concrete storm water drain in neighborhood of Liberty Heights Ave. and Western Maryland R.R. $40,000. B. L. Crozier, highway engr.

**N. C., Roxboro**—Oct. 9, by Bd. Comrs. and Mayor, 7½ mi. 6-15 in. sanitary sewers with manholes and other appurtenances. Spoon & Lewis, Greensboro, engrs.

**Fla., Miami**—Sept. 25, by F. H. Wharton, city mgr., storm sewers. $25,000.

**N. C., Kings Mountain**—See "Waterworks."

**O., Cleveland**—Sept. 27, sewers in Parkdale and Carrydale Aves. from West 140th to West 143rd Sts., and main sewer district from Ridge Rd. to West 35th St. To exceed $25,000. R. Hoffman, city engr.

**Tex., Ft. Worth**—Sept. 25, 3,500 ft. of 2-6½ ft. storm sewers, 44 miscellaneous inlets, in Bessie St. $25,000. D. L. Lewis, city engr.

### BIDS RECEIVED

**Md., Baltimore**—Bd. Awards constructing storm sewers in Dist. J-1 localities, 6,000 lin.ft. 15-54 in. pipe, Storm Water Contr. 59, from D. Catalano, Knickerbocker Bldg., $34,815. Noted Sept. 6.

**N. Y., St. George**—J. A. Lynch, pres. Richmond Boro, Boro Hall, Sept. 17, temporary sewers (1) Bradley Ave. (2) Hinschliff Ave. from F. J. Cerelli, (1) $11,576; J. Johnson Sons, 455 Bway., West New Brighton, (2) $111,756. Noted Sept. 13.

**Mich., Lincoln Park** (Wyandotte P. O.)—See "Miscellaneous."

**Mich., Springwells**—B. P. Esper, village clk., Sept. 11, lateral sewers in Sects. 18, 19 and 22, from S. Fattore, 2201 St. Aubin Ave., Detroit, $10,133, $13,238 and $13,500 respectively; Dist. 20 from Coolsaet Bros., Detroit, $6,648; Dist. 21 from Rennie & Dibble 11331 Colonial Ave., Detroit, $26,572; Sewer Arm 38 from G. Pontarelli, Wolverine Hotel, Detroit, $13,975.

### CONTRACTS AWARDED

**Md., Baltimore**—Bd. Awards, 200,000 lb. manholes, to Amer. Shoe Brake and Fdry. Co., Fulton Station, $6,980.

**O., Akron**—Installing 36 in. pipe line to connect at Brittain Rd. with 48 in. feeder from Kent Reservoir, thence down Ottawa St. to Kline St. and Case Ave., to McAlonan Bros., 197 West Buchtel Ave., $26,843. Pipe already purchased by city, $72,000. Engrs. est. $100,000.

**O., Euclid**—Sewers in Lake Shore Blvd., Sect. 1 to Amato Constr. Co., c/o Sewer Contractors Exch., The Arcade, Cleveland, $73,699; Lake Shore Blvd. Sect. 2, to Graham & Henderson, 1274 West 108th St., Cleveland, $93,027; submerged outfall sewer in Lake Shore Blvd. to Cleveland Eng. & Constr. Co., The Arcade, Cleveland, $67,787. Noted Sept. 13.

**Mich., Lincoln Park** (Wyandotte P. O.)—To Hammen & Co., 4612 Woodward Ave., Detroit, 7,000 ft. Lateral 11, $16,807, 6,000 ft. Lateral 13 $13,197 9,000 ft. Lateral 18 $27,113; to Western Constr. Co., 1208 Ford Bldg., Detroit, 8,000 ft. Lateral 12, $18,208; to Callahan & Grosse, Lincoln Park, 3,500 ft. Lateral 14, $7,795, 1,000 ft. Lateral 17, $3,349; to Rennie & Dibble, 11331 Colonial Ave., Detroit, 6,000 ft. Lateral 15, $14,071, 9,000 ft. Lateral 19, $16,611, 16,000 ft. Lateral 20, $42,798.

**Wis., Rhinelander**—Sewerage system, 26,502 ft. vitr. or concrete pipe, to W. D. Lovell, 1415 8th St. S. E., Minneapolis, Minn. $78,981. Noted Sept. 13.

**Ia., Sioux City**—For 1,730 lin.ft. 14 x 39 ft. storm water conduit, for changing channel and water of Perry Creek, 50,000 cu.yd. excav., etc., to C. F. Lythe Constr. Co., 504 Nebraska St., gravel construction broken stone floor, $314,055. Noted Sept. 13.

**Kan., Wichita** — For 13,500 ft. storm water sewer No. 24, know as 2nd St. Sewer, to Foster & Skaer, Broadview Hotel. Engrs. est. $92,000.

**Tex., Grand Prairie** — Sewer mains laterals and disposal plant, to R. J. Estep & Co., Deere Bldg., Dallas, $52,200. Noted Aug. 23.

**Wash., Seattle**—Bd. Pub. Wks., 5,723 ft. pipe sewer in 9th Ave. N., et al., to Florito Bros., 3950 6th Ave., Seattle, clay $32,053. Noted Sept. 13.

Sewers (Continued)

**Calif., Long Beach**—Concrete pipe sewerage system in Sanitary Sewer Dist. 1, to L. C. Campbell, 350 Merrick St., Los Angeles, $139,225. Noted Sept. 13.

**Calif., Pasadena**—Constructing 8-16 in. vitr. sewers in Arroyo Blvd., to L. Miletich, 610 West 54th St., Los Angeles, $159,733.

## Waste Disposal

### CONTRACTS AWARDED

**Calif., Sacramento**—City Comrs., incinerator, to F. L. De Carrie, Portland, Ore., $195,000. Noted Sept. 13.

## Bridges

### PROPOSED WORK

**North Carolina**—State Hy. Dept., Raleigh, rejected bids rein.-con. bridges and culverts on State Project 745, Forsyth Co. $32,000. Will readvertise. C. M. Upham, state highway engr. Noted Sept. 13.

**O., Toledo**—See "Miscellaneous."

**Kan., Topeka**—See "Streets and Roads."

**Ark., Cody** (Hulpert P. O.) — Lee Co. (Mariana) having preliminary plans prepared, steel and concrete bridge, probably 3 spans, here. $250,000. Engineer not selected.

**Calif., San Jose**—Oct. 23, to vote on $100,000 bonds bridges in various sections of city. W. Popp, city engr.

**Ont., Niagara Falls**—Queen Victoria Park Comn. having plans prepared for 2 rein-con. arch bridges, 30 and 50 ft. spans, both 30 ft. wide, in Queen Victoria Park. $25,000. C. H. Bond, 4 Wellington St. E., Toronto, engr.

### BIDS DESIRED

**S. C., Lancaster**—Oct. 4, by Comrs. Lancaster Co., 5 rein.-con. bridges on State Route 26, Federal Aid Project 230, 1,034 cu.yd. concrete, 165,740 lb. reinforcing, 1,094 sq.yd. bituminous covering, etc. $49,564.

**Fla., Jacksonville** — See "Streets and Roads."

**Alabama** — Oct. 9, by State Hy. Dept., Montgomery, bridges on Ashland-Heflin Rd., Federal Aid Project 136, Clay Co., 1,543 cu. yd. concrete, 245,992 lb. reinforcing, etc. W. S. Keller, state highway engr.

**Miss., Brandon**—See "Streets and Roads."

**Louisiana**—Oct. 11, by State Hy. Dept., Reymond Bldg., Baton Rouge, one 70 ft. steel riveted truss span and two 20 ft. rein.-con. deck girder approach spans, all on rein.-con. piers, on State Project 82 C, Arcadia-Shreveport Highway, Bienville Parish, also one 40 ft. span and two 26 ft. approach spans, all rein.-con. deck girders on rein-con. piers, State Project 101 A Ruston-Arcadia Highway, Lincoln Parish. J. M. Fourmy, ch. engr.

**Illinois** — Sept. 26, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, 16 girders, 8 slabs, 4 box culverts and 4 substructures, all foregoing rein.-con., 4 steel superstructures and 1 steel bridge. C. H. Older, ch. highway engr.

**Ia., Greenfield** — Sept. 25, by Auditor Adair Co., 49 culverts and extensions, one 100 x 20 ft. high truss, one 60 x 20 ft. pony truss and one 40 x 24 ft. I-beam bridge, 1,866 cu.yd. rein.-con., 140,000 lb. steel, etc. Iowa Hy. Comn., Ames, engrs.

**S. D., Wheeler**—Oct. 10, by State Hy. Dept., Pierre, bridge over Missouri River, 1 mi. from here, Charles Mix and Gregory Counties; adv. this issue.

**California**—Oct. 1, by State Hy. Comn., Sacramento, bridges over San Lorenz Creek near King City, will have three 60 ft. and two 30 ft. rein.-con. girder spans on piers and bents, etc., approaches to be graded. R. M. Morton, state hy. engr.

### BIDS RECEIVED

**New Jersey**—State Hy. Comn., Trenton, concrete encased steel plate girder bridge, one 89 ft. span, concrete abutments, temporary bridge and rein.-con. slab approaches, removal present bridge over Pequannock River at M. P. 16.1, State Highway Route 8, Sect. 3, Pequannock and Pompton Twps., Morris and Passaic Counties, from Arnolt-Moore Co., 45 Clinton St., Newark, $49,800. Noted Aug. 30.

**New Jersey**—State Hy. Comn., Trenton, highway bridge with its approaches over Raritan River, between Perth Amboy and South Amboy, (1) work complete (2) less trolley tracks and power conveyors (3) less asphalt pavement and motor beds (4) less trolley tracks and asphalt pavement, from **Frederick Snare Corp.**, 114 Liberty St., New York City, (1) $3,934,000 (2) $3,890,000 (3) $3,872,000 (4) $3,828,000; Stillman, Delehanty, Ferris Co., 1 Exchange Pl., Jersey City, (1) $4,444,696 (2) $4,389,969 (3) $4,384,696 (4) $4,329,696; Patrick McGovern, Inc., 50 East 42nd St., New York City, (1) $4,933,011 (2) $4,848,011 (3) $4,878,011 (4) $4,793,011. Noted July 26.

**Missouri**—State Hy. Dept., Jefferson City, bridge over 102 River, Buchanan Co., from Koss Constr. Co., 2818 5th St., Des Moines, Ia., $39,756; bridges over Castile Creek, east branch of Castile Creek and west fork of Castile Creek, De Kalk Co., from Cameron & Joyce & Co., Keokuk, Ia., $31,673; over Big St. Francis River, Madison Co., from C. T. Fogle Constr. Co., Jefferson City, $30,890; over Marias Des Cygnes River, Miami River, and Marias Des Cygnes River Drainage Ditch, Bates Co. from Western Bridge Co., Harrisonville, $29,082, $48,608 and $32,155 respectively; over Stream, Newton Co., from C. J. Williams, Monett, $3,235; over Jacks Fork, Texas Co., from Short & Bremes, Monett, $4,175; over Minnow Branch and Stream, Marion Co., from Gaines Bros. Co. and A. P. Munsen Fairland, Okla., $18,227; over Stream, Cass Co., from N. A. Christy, Warsaw, $3,131; over Maple Slough Drainage Ditch, Mississippi Co., from R. L. Williams, Wyatt, $6,772; over Spring Creek, Douglas Co., from Sommerfield & Jones, Billings, $2,017; over Jordon Branch and East Branch Jordon Creek, from O. H. Schmidt, 3108 Jule St., St. Joseph, $19,485; overflow of Grand River, Livingston Co., from Callahan-Walker Constr. Co., 322 Peters Trust Bldg., Omaha, Neb., $40,867; over Cow Branch and Rock Creek, Atchison Co., from W. R. Larson Constr. Co., 518 Secy. Natl. Bank Bldg., Sioux Falls, S. D., $23,554; over Willow Branch, Ray Co., from Cook O'Brien Constr. Co., 305 Ry. Exch. Bldg., Kansas City, Mo., $12,936; over Grand River, Cass Co., from Liberty Constr. Co., Kansas City, $8,436; over Stream, Holt Co., from Judson Eng. & Constr. Co., St. Joseph, $7,110; over Roark Creek, Taney Co., from Midland Bridge & Constr. Co., 401 Ry. Exch. Bldg., Kansas City, Mo., $4,731; over Des Peres River, St. Louis Co., one 70 ft. steel truss span, and one 70 ft. rein.-con. arch span from C. M. Berry, Webster Groves, $15,225 and $15,065 respectively; over 3rd fork of Platte River, Buchanan Co., from O. H. Schmidt, 3108 Jule St., St. Joseph, $27,471. Noted Aug. 30.

**California**—State Hy. Dept., Sacramento, bridge over Cedar Creek, east of Gilroy, and bridge over North Fork Pacheco Creek, Santa Clara Co., from De Waard & Cobham, Granger Bldg., San Diego, $57,699. Noted Aug. 30.

### CONTRACT AWARDED

**Conn., Bridgeport**—East Washington Ave. Bridge Comn., steel bridge, East Washington Ave., to Bridgeport Dredge & Dock Co., 1024 Main St., $326,575. Noted June 28.

**North Carolina**—State Hy. Dept., Raleigh, rein.-con. bridges and culverts on State Project 679, Scotland Co., to E. T. Gwathmey, Norfolk, Va., $25,982; State Project 185 C, Pitt Co., to Groves Co., & Shepard, Greenville, $33,190; State Project 592, Rockingham Co., to J. L. Brinkley, Thomasville, $29,017; State Project 495, Warren Co., to J. A. Marrow, Clarksville, Va., $25,166.

**Wis., Peshtigo**—State Hy. Comn., Madison, Peshtigo Bridge, to Stein Constr. Co., 204 Grand Ave., Milwaukee, additional concrete at no greater depth $40, additional concrete at greater depth $50, less concrete than shown on plans $8, etc. Total $51,300. Noted June 21.

**Ont., Prairie Siding**—Kent Co., new steel bridge to W. Bermingham & Son, Kingston, $120,000.

**Ont., St. Catharine**—Welland Co., Court House, several concrete bridges and culverts, 1,800 cu.yd. concrete, to R. H. H. Blackwell, 57 Queen St. W., Toronto, $31,643.

## Dams

### PROPOSED WORK

**Conn., Meriden**—Common Council voted additional $40,000 to repair Broad Brook Dam. $65,000 now available. A. Hazen, 25 West 13th St., New York City, engr. Noted July 5.

**Minn., Little Falls** — See "Industrial Works."

**Tex., Ennis** — Making plans earth dam, spillway, etc., on Waxahachie Creek, also pipe line. $50,000 bonds voted. H. McCandles, city engr. Noted Aug. 23.

**Tex., New Braunfels**—Planters & Merchants Mill making plans dam across Guadalupe River, for cotton mill. $25,000. Engineer not announced.

**Tex., Three Rivers**—Live Oak Co. election this month to vote on $500,000 bonds for irrigation dam across Atascosa River and main canal and laterals for gravity irrigation, 21,000 acres affected. Engineer not selected.

**Calif., Merced**—Merced Irrigation Dist., revising plans and soon takes bids constructing Exchequer Dam. Noted Aug. 16.

### CONTRACTS AWARDED

**Kan., Cassoway**—Eldorado & Santa Fe Ry., Eldorado, 800 m.g. reservoir on Walnut River, ½ mi. from here, 2,200 ft. rein.-con. dam, 150 ft. wide at bottom and 16 ft. at top, 250 ft. spillway, to Eldorado & Santa Fe Constr. Co., Eldorado.

## Railways

### PROPOSED WORK

**Connecticut**—New York, New Haven & Hartford R.R., New Haven, plans relocating entire crossing at New Britain. $50,000. E. Gagel, ch. engr.

**Mississippi**— Mississippian Ry. Co. organized to build 25 mi. standard gauge railroad from Amory to Fulton, to connect with Frisco System. J. T. Cochrane, 68 St. Francis St., Mobile, Ala., pres.

**Texas**—Missouri, Kansas & Texas R.R., Denison, had plans prepared dump widening, concrete drains, block system, signals and heavy steel rails on line, from Pottsboro to Whitesboro. E. L. Martin, Missouri, Kansas & Texas Bldg., Dallas, engr.

**California**—Tehachapi Ry. Co. (recently organized) plans 30 mi. road between Ilom and Bena, Kern Co. E. J. Foulds, 1600 Euclid Ave., Berkeley, a director

### BID DESIRED

**New Zealand**—March 18, by Pub. Wks. Tender Bd., Wellington, 18 mi. railway, etc.; adv. E. N.-R. Sept. 20

### BIDS RECEIVED

**California**—Merced Irrigation Dist., Merced, relocation of Yosemite Valley R.R. (approximately 16 mi.), from Twohy Bros., Sharon Bldg., San Francisco, excluding tracklaying $1,328,796, tracklaying $78,595, total $1,407,391. Noted Aug. 23.

## Excavation, Drainage Irrigation

### PROPOSED WORK

**O., Akron**—Plans beautifying shores of Summitt Lake, by dredging and draining the shore lands and building boulevard completely around same, also constructing lagoon system in wider points. $250,000. E. A. Kemmler, city engr.

**Ill., Belleville** — Silver Creek D. D. 2, plans straightening and widening 12 mi. Silver Creek, reclamation 8,300 acres in Shiloh Valley, Mascoutah and Freeburg Twps. $134,000. Engineer not selected.

**Wis., Humboldt** — Brown Co. Drainage Bd., c/o F. Desnoyer, secy., 605 Cherry St., Green Bay, making plans draining approximately 3,500 acres, open ditch work and 8-12-14 in. vitr. drain tile. $25,000. L. M. Schindler, 721 Clark St., Appleton, engr.

**Wis., Madison**—Marshall D. D, c/o F. W. Lucas, State Bank Bldg., will sell $32,500 bonds Oct. 2, for tile and open ditch drainage system, Dane Co. P. H. Hintze, Court House, engr.

**Tex., Three Rivers**—See "Dams."

**Calif., Redwood City** — See "Industrial Works."

### BIDS DESIRED

**Ala., Fayette**—Sept. 27, by Bd. Drainage Comrs., excavating lateral ditches in Fayette and Lamar Co. D. D. 1, 160,000 cu.yd. excav. W. M. Sudduth, chn.

**Ala., Winfield**—Sept. 27, by Bd. Drainage Comrs., constructing drainage system in Marion Co. D. D. 1, 120,000 cu.yd. excav. W. H. Ward, chn.

**Wis., Elkhorn**—Oct. 10, by H. H. Tubbs, secy. Walworth Co. Drainage Bd., constructing Farm Drain 2 in Sugar Creek Twp., 132,000 cu.yd. earth excav., bulkhead, catchbasin, reinforcing abutment of bridge, 13,982 lin.ft. 10-15 in. shale tile. Private plans. Noted July 19.

**Tex., Edinburg**—Oct. 1, by Bd. Directors Hidalgo Co. Water Impvt. Dist. 4, 10 mi. canal reconstruction, bridges, etc. $25,000. W. L. Rockwell, Edinburg, engr.

**Mont., Hamilton**—Oct. 5, by Bitter Root Irrigation Dist., repairs and reconstruction work on irrigation system, incl. canal excav., concrete work, timber flume and

Excavation, Drainage, Irrigation (Continued)

steel work near here. M. Lundquist, secy. A. E. Walsh, ch. engr.; adv. E. N.-R., Sept. 20. Noted March 16, 1922.

**BIDS RECEIVED**

**Calif., Helm**—Stinson Irrigation Dist., irrigation improvements as follows: pumps Item 3, 3-6 deep well turbine pumps, 60 ft. column, 20 ft. suction, lift 35-50 ft. 2-2.5 sec. ft. Item 4, 10-14 deep well turbine pumps, 60 ft. column, 20 ft. suction, 2-3 sec. ft. 35-5 0ft. lift, from Western Well Wks. ,San Jose, Item 4, $938 per pump, Layne & Bowler San Jose 3a $956 3b $794, 3c $731, Byron-Jackson Pump Mfg. Co., 55 New Montgomery St., San Francisco, Item 4 $935 each, Stirling Iron Wks., Stockton, 4a $815, 4b $765, 4c $155, 4d $1,000, Kimball Electric Co., Los Angeles, (6 pumps) 3a $6,234, 3b $4,490, 3c $5,844, 3d $4,110, Peerless Pump Co., Los Angeles, Item 4 $766 each; wells—drilling 3-6 wells, cased with 14 in. double No. 12 gauge casing for 100 ft. then 12 in. double No. 12 casing to total depth 400-900 ft. or 5b using double No. 12 for 1st 100 ft. and 12 in. balance, from Western Wells Wks., San Jose, 5a $7 ft. to 400 ft. $7 ft. to 800 ft. 5b $7 ft. to 400 ft. and $6.25 ft. up to 800 ft., Harp Bros., 5b $8.52 per ft. and $6.75 per ft.; Item 13, 148 cement turnout boxes, Item 17, 41 bridges, Item 18, 20 headgates, 20 checks for laterals, 7 checks in canals, from Adell-Cortwright, Hanford, 13 $11.60 each, $5.75 installing 17-20 ft. spans $190 each, 28 ft. spans $275 each, 18 $55, $45 and $70 each; materials, Item 10, 2-4 carloads cement, f.o.b. Helm or Burrell, Fresno Co., from Pacific Portland Cement Co., Pacific Bldg., San Francisco, $3.62 per bbl., Santa Cruz Portland Cement Co., Pacific Bldg., San Francisco $3.62 per bbl., Old Mission Portland Cement Co., Mills Bldg., San Francisco, $3.62 per bbl., $0.10 for sack returned, $0.05 bbl. discount if paid in 10 days, Item 11, 4-8 carloads gravel and 2-4 carloads sand, Burrell or Helm, from Grant Rock & Gravel Co., Fresno, $1.65 and $1.20 per ton gravel and $1.30 per ton sand, Item 12, 2,000-2,500 ft. 18-36 in. cement pipe, from Adell-Cortwright, Hanford, 18 in. $0.60, 20 in. $0.68, $24 in. $0.98, 30 in. $2.10, 36 in. $2.85; canals, Item 15, 150,000 cu. yd. excav., from W. R. Stevens & Kellar, cost plus 10% not to exceed $0.25 yd.

**CONTRACTS AWARDED**

**La., New Iberia** — Iberia Parish, canal from Lake Fausse Pointe to Bayou Teche, 710,000 cu.yd. excav., to Ennis Constr. Co., New Orleans. Engrs. est. $75,000.

**La., Shreveport**—Caddo Levee Bd., widening Douglas Island ditch, 145,000 cu.yd. excav., to Douglas, Burt & Crow, Shreveport. Shreve Island levee 25,000 cu.yd. excav., to Taylor & White, Woodside; Brown Pl. Reach Levee, 80,000 cu.yd. excav., to Constant & Co., Shreveport. About $75,000.

**Tenn., Selmer** — McNairy Co. Drainage Comn., 11 mi. drainage canal, 225,000 cu.yd. earth excav., to Tupelo Dredging Co., Tupelo, Miss. $25,000.

**Ia., Estherville**—Supervs. Emmet Co., constructing D.D. 121, to Clarke Constr. Co., Clinton, 266,612 cu.yd. excav. $0.35; Cement Products Co., Estherville, 33,410 lin.ft. 7-18 in. tile $6,256; J. J. Oston, Allendorf, tile labor $5,990. Noted Aug. 30.

# Streets and Roads

**PROPOSED WORK**

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids repaving Astoria Ave., sheet asphalt. Will readvertise. Noted Sept. 6.

**N. Y., Penn Yan**—Yates Co. having surveys made 3.25 mi. Dundee-Wayne Rd., 16 ft., cement. $135,000.

**N. J., Belvidere**—Bd. Freeholders Warren Co., making plans concrete paving 5 mi. Washington-Hampton Rd.

**N. J., Morristown**—Bd. Freeholders Morris Co., rejected bids constructing section Parsipanny-Littleton Rd., Hanover Twp., and Long Valley to Hunterton Co. line Rd, Washington Twp. Noted Aug. 16.

**Pa., Cresson**—Plans prepared paving 3 mi. Park, Powell, Ashcroft, Keystone, Columbus and Cathedral Aves. $100,000. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engrs.

**W. Va., Parkersburg**—Election soon to vote on $550,010 bonds paving various streets. J. M. Rice, Jones Law Bldg., Pittsburgh, Pa., engr.

**North Carolina**—State Hy. Dept., Raleigh, rejected bids grading and concrete or asphaltic paving 8.04 mi. State Project 641, Iredell Co., $292,000; grading and concrete paving 4.57 mi. State Project 745, Forsyth Co., $172,000. C. M. Upham, state highway engr. Noted Sept. 13.

**N. C., Salisbury** — Bd. Aldermen authorized issue of $340,000 bonds for paving various streets.

**Fla., Sebring**—Highlands Co. Comn., rejected bids grading 15 mi. Lake Annie and Crewsville Rds., 16 ft. $40,000. Peacock & Hood, Sebring, engrs. Noted Aug. 30.

**Fla., Sebring**—Highlands Co. election Oct. 16, to vote on $25,000 bonds clay surfacing 9 mi. Rds. 6-10 inclusive, 9 ft.; $25,000 bonds 9 mi. Rds. 1-5 inclusive, 9 ft., all in north half Avon Park Twp. Peacock & Hood, Avon Park, engrs.

**Fla., Tampa**—Having new surveys made paving Campbello Ave., 2½ in. asphalt blocks. $30,000. Former bids returned unopened. R. D. Martin, city engr. Noted Aug. 9.

**La., Crowley**—Plans to improve streets, 21,000 yd. concrete. $80,000. I. B. Broussard, clk.

**Tennessee**—State Dept. Hys. and Pub. Wks., Nashville, soon takes bids paving 6½ mi. highway in Sullivan Co., 18 ft., probably bituminous macadam. J. G. Creveling, highway comr.

**Tenn., Columbia**—Maury Co. plans reconstructing 130 mi. Carters Creek, Bear Creek, Santa Fe, Williamsport, Hampshire, Glendale, Lewisburg, Culleoka, Campbellsville, Lowell Mill and Kedian Pikes, probably limestone and gravel. $2,000 per mile. Plans election to vote on bonds. B. Wilkes, co. engr.

**Kentucky**—State Hy. Dept., Frankfort, having plans prepared grading 6.34 mi. Covington-Falmouth Extension Rd., 24 and 28 ft., Kenton Co. J. S. Boggs, state highway engr.

**Kentucky**—State Hy. Dept., Frankfort, having plans prepared grading 7.32 mi. Jackson-Breathitt Co. line Rd., 24 and 28 ft., State Project 4, Breathitt Co. J. S. Boggs, state highway engr.

**Kentucky** — State Hy. Dept., Frankfort, rejected bids grading 3.996 mi. Hazard-Whitesburg Rd., State Project 4, Sect. C, Perry Co.; 2.646 mi. Hazard-Jackson Rd., State Project 4, Sect. B, Perry Co. Will readvertise. J. S. Boggs, state highway engr. Noted Sept. 6.

**Ky., Danville**—City Council voted $38,000 bonds constructing various streets and sewers.

**Ky., Louisville**—Jefferson Co. plans constructing 3½ mi. Bardstown Rd. up to county limits, 18 ft. $35,000. G. McWain, co. engr.

**O., Akron**—See "Excavation, Drainage, Irrigation."

**O., Canton**—Plans paving 0.5 mi. 13th St. N. W., 40 ft., $28,500; 1 mi. Cleveland Ave. N. W., East Side, 20 ft., $30,000. W. E. Sarver, city engr.

**O., Toledo** — Having plans prepared widening and paving 16 streets, vitr. brick, wood block, asphalt, concrete, bituminous concrete and bituminous macadam, also improving railroad crossing, tunnel, etc. $5,815,000.

**O., Toledo**—Plans regrading, resurfacing and widening Sylvania Ave. from 34 ft. to 54 ft., asphalt. $275,000. A. Jackson, service dir.

**O., Tiffin**—Seneca Co. plans 1.6 mi. macadam on Green Springs Rd. $59,664.

**O., Zanesville**—Bd. Control plans improving Greenwood Ave. from Main St. to Cemetery Ave., $45,000; West Main St. from Y Bridge to Corporate limits, $100,000; Lexington Ave. from Ohio St. to Coopernell Rd., $31,000. C. Spencer, city engr.

**Michigan** — State Hy. Dept., Lansing, soon takes bids grading and surfacing 4 mi. State Trunk Line Rd. 13-48, Kent Co., also 5½ mi. Federal Aid Project 89, Sect. D, Jackson Co., asphalt, concrete or bituminous concrete. F. F. Rogers, state comr.

**Michigan**—State Hy. Dept., Lansing, soon takes bids grading and gravel surfacing 5 mi. State Trunk Line Rd. 40-6, Van Buren Co., and 5 mi. State Trunk Line Rd. 10-30, Iosco Co.; grading and surfacing 9 mi. State Trunk Line 27-6, Huron Co., concrete or gravel, 5.977 mi. State Trunk Line Rd. 25-2, Sect. A, Luce Co., concrete, bituminous concrete or gravel. F. F. Rogers, state comr.

**Wis., Two Rivers**—Making plans paving Monroe, Washington, 17th, 18th, 19th, 20th, 21st, 14th, 13th, and 11th Sts., 20-30 ft., vibrolithic concrete and waterbound macadam. $50,000. D. H. Ames, City Hall, engr.

**Minn., Glencoe**—Comrs. McLeod Co. plan graveling 30 mi. road between Hutchinson, McLeod Co. and Litchfield, Meeker Co. $45,000. T. C. Christlieb, Hutchinson, and G. H. Martz, Litchfield, engrs.

**Kan., Emporia**—Lyon Co. had plans prepared paving 2.003 mi. road, 18 ft., brick or concrete. W. S. Ruggles, co. engr.

**Kan., Oberlin**—Decatur Co. soon takes bids 9.62 mi. earth road, 28 ft., Federal Aid Project 165, Sect. A. Kansas Eng. Co., Topeka, engrs.

**Kan., Topeka**—Shawnee Co. making plans constructing 11¼ mi. concrete road, 18 ft. A. C. Lagerwall, co. engr.

**Kan., Topeka**—Shawnee Co. had plans prepared constructing 4 mi. roadway, 20 ft., concrete bridge over Indian Creek, two 34 ft. rein.-con. T girder spans. $160,000. A. C. Lagerwall, co. engr.

**Kan., Wellington** — Plans to readvertise for grading and concrete paving 7,050 sq. yd. A St. from 15th St. to city limits. $25,000.

**Kan., Wichita** — Plans paving 4 blocks Emporia, Minnesota, Madison and Market Sts., with asphaltic concrete; 1 block 11th St., brick, 13 blocks Chautauqua, Harrison, Dayton, Murdock and Lewellyn Sts. and alley west and north of Douglas St., concrete. $100,000. P. L. Brockway, City Bldg., engr.

**Neb., Fairbury**—Soon takes bids paving 35 blocks, asphalt or concrete. N. M. Collier, Fairbury, engr.

**Mo., Festus**—Plans grading, macadamizing, rocking and graveling 2,100 ft. North 2nd St., 20 ft. $20,000-$25,000.

**Tex., Alice**—Jim Wells Co. making surveys, grading and asphalt surfacing 20 mi. various roads, 18 ft. $600,000 available.

**Tex., Beaumont**—Jefferson Co. rejected bids grading and surfacing with rein.-con. 7.35 mi. State Highway 40, Voth Rd., 16 ft. $315,000. Noted Aug. 16.

**Tex., Cuero**—De Witt Co. election soon to vote on $133,000 bonds gravel surfacing 19 mi. from here to Westhoff and Yorktown, Galcier-to-Gulf Highway, 18 ft. S. Kulawik, co. judge.

**Tex., Dallas**—Making plans widening, paving and extending Ross Ave. and Raitman St. in Lakewood and Belmont additions. Cost to exceed $25,000. E. A. Kingsley, city engr.

**Tex., Denison**—Making plans permanent paving, curbing and guttering Morgan and Fannin Sts. $25,000. D. C. Lipscomb, Denison, engr.

**Tex., Laredo**—Webb Co. plans bituminous topping State Highways 2 and 12, 16-17 ft. $500,000. State and Federal Government appropriated $250,000 toward cost. Engineer not selected.

**Tex., Liberty**—Liberty Co. plans grading and gravel surfacing 4.5 mi. State Highway 35, from Cleveland north to Cleveland Co. line. $40,000. W. C. Youngs, Dayton, co. engr.

**Tex., Memphis**—Hall Co. plans grading, gravel and crushed rock surfacing 20 mi. State Highway 5 A, 16 ft. $200,000. A. C. Hoffman, co. judge.

**Tex., Lubbock**—See "Sewers."

**Tex., Mineral Wells**—Making plans paving 9 blocks North 4th St., 40 ft., probably brick. $25,000. McClendon & Purnell, Mineral Wells, consult. engrs.

**Tex., Teague** — Freestone Co. election soon to vote on $25,000 bonds, improving roads in Young Precinct. $25,000. F. Roper, Fairfield, co. judge. Engineer not selected.

**Tex., Waxahachie**—Ellis Co. voted $750,000 bonds constructing various roads. H. A. Spaulding, Waxahachie, engr.

**Okla., Claremore**—Rogers Co. voted $850,000 bonds hard surfacing various roads. Noted Aug. 30.

**Okla., Pawhuska** — Plans grading and paving 9 blocks 6th, 7th and Leahy Aves., 30 ft., 12,500 sq.yd. asphalt, etc. $65,000. J. M. Buckley, city engr.

**Okla., Sayre**—Voted $25,000 bonds grading and paving Cedar, 1st and 2nd Sts., 2,700 sq.yd. concrete, etc. V. V. Long & Co, 1300 Colcord Bldg., Oklahoma City, engrs. Noted July 19.

**Wash., Yakima**—Comrs. Yakima Co. soon take bids paving ½ mi. West Yakima Ave. from West to Grandview Aves., either concrete base with asphalt or black top, or all concrete construction. $40,000.

**Calif., Eureka**—Had plans prepared improving H St., 476,556 sq.ft. grading, 476,556 sq.ft. 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete, etc.; Fairfield St., 160,990 sq.ft. grading, 160,990 sq.ft. 1½ in. warrenite bitulithic on 2 in. asphaltic concrete, etc. H. H. Hannah, city engr.

Streets and Roads (Continued)

**Calif., Los Angeles** — Preparing plans grading, curbing, guttering and paving O'Farrell St. and portions 1st, 3rd, 4th and Sepulveda Sts., etc. To exceed $50,000. J. A. Griffin, city engr.

**Calif., San Diego**—Had plans prepared improving Arizona St., 108,901 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete, etc. F. A. Rhodes, city engr.

**Calif., San Diego** — Had plans prepared improving Robinson and Pennsylvania Aves., 7th and 8th Sts., 150,387 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous, etc.; 1st, 2nd and 3rd Sts., 31,200 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete, 1 in. binder course, 173,086 sq.ft. 1½ in. asphaltic concrete on 3 in. bituminous, 99,451 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, etc. F. A. Rhodes, city engr.

**Calif., San Francisco** — Had plans prepared improving Market St., 16,516 cu.yd. excav., 11,987 cu.yd. fill, 23,951 sq.ft. artificial stone walks, 85,212 sq.ft. asphaltic concrete, 5,137 sq.ft. concrete, etc. M. M. O'Shaughnessy, city engr.

**Calif., San Francisco**—Had plans prepared improving Wilde Ave., 7,100 cu.yd. excav., 1,035 cu.yd. fill, 4,388 lin.ft. concrete curb, 19,200 sq.ft. concrete, 71,225 sq.ft. asphaltic concrete, etc. $38,675. M. M. O'Shaughnessy, city engr.

**Que., Outremont**—Soon takes bids paving streets $38,825, sidewalks $48,489. E. T. Sampson, city clk.

**Ont., Agincourt**—Toronto & York Highways Comn. plans 11,000 sq.yd. asphalt pavements on Main St. between Kennedy Rd and Canadian Pacific Ry. station. $75,000. E. A. James, 57 Adelaide St. E., Toronto, engr.

**Ont., Hamilton**—Having plans prepared asphalt pavements on Dunsmore Ave. $3,223, Stinson St. $46,370, Young St. $46,370, concrete sidewalks on Dunsmore Ave. $6,766. A. L. McFaul, city engr.

**Ont., Richmond Hill**—Having plans prepared and soon takes bids 6,500 sq.yd. pavement on Yonge St., asphalt, bituminous concrete or macadam. $30,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

**Ont., Toronto**—Plans asphaltic pavements on Hiawatha Rd. $15,000, concrete curbs on Hiawatha Rd., Hilton, Luttrell, Fairford, Godfrey and Walpole Aves. $5,000, concrete sidewalks on Balliol St., Davisville Ave. and Forsythe Crescent, asphalt on concrete on 12,000 sq.yd. North Pl., Fairford, Godfrey, Gledhill, Glenfern, Hilton and Walpole Aves., $40,000; bitulithic on concrete on 8,000 sq.yd. Wrenson Rd., Jane St., Gillard, Kilben, Luttrell Aves. $30,000. R. C. Harris, city engr.

### BIDS DESIRED

**N. Y., Brooklyn**—Sept. 27 by F. D. Gallatin, pres. Park Bd., Municipal Bldg., New York, improving main roadway Eastern Parkway, here.

**N. Y., Brooklyn**—Sept. 26 by E. Riegelmann, boro. pres., Borough Hall, grading, curbing, flagging and constructing ramps and steps on Stillwell Ave., West 10th, West 12th, West 19th, West 31st, West 36th, West 15th, West 16th, West 24th, West 27th, West 28th, West 29th, West 35th and West 37th Sts.

**N. Y., Long Island City**—Sept. 27 by M. E. Connolly, boro pres., Queens Boro, Queens Subway Bldg., grading, curbing and laying sidewalks on 12th Ave. from Graham to Pierce Aves., constructing receiving basins, and paving with sheet asphalt on concrete 12th Ave. from Bway. to Pierce Ave., paving with sheet asphalt on concrete, constructing receiving basins, etc., Ditmars Ave. (former bids rejected). Noted Sept. 6.

**N. Y., Long Island City**—Sept. 25 by M. E. Connolly, boro pres., Queens Borough, Queens Bldg., grading and improving Jamaica Bay Blvd., incl. 96 ft. trestle, retaining walls, etc.; repaving with sheet asphalt on concrete and macadam, Jackson Ave.

**N. Y., New York**—Sept. 25 by G. A. Whalen, comr. Dept. Plant and Structures, Municipal Bldg., reconstructing pavement, curbs, etc., on south clearance roadway alongside Manhattan approach of Williamsburg Bridge.

**N. J., Belvidere**—Oct. 10, by Bd. Freeholders Warren Co., constructing Sect. 1, Phillipsburg-Belvidere Rd. H. W. Vetter, co. engr.; adv. E. N.-R. Sept. 20.

**Pa., Montoursville**—Sept. 28, by Boro. Council, brick paving 2,500 ft. Loyalsock Ave., also storm sewers. M. L. Smith, 1st Natl. Bank Bldg., Williamsport, engr.

**Maryland**—Sept. 25, by State Rds. Comn., Baltimore, paving 2 mi. highway between Libertytown and Oak Orchard, Frederick Co., Contr. F-62. J. N. Mackall, chn.; adv. E. N.-R., Sept. 20.

**W. Va., Weston**—Oct. 15, by Lewis Co., grading and paving 23½ mi. roads, 18 ft. $500,000.

**Fla., Jacksonville**—Oct. 1, by F. Brown, clk., Duval Co., clearing Dunns Creek and Baldwin Bryceville Rds., constructing 2 wooden bridges.

**Fla., Miami**—Sept. 25, by F. H. Wharton, city mgr., sheet asphalt paving, curbing and guttering various streets. $25,000.

**Fla., Sebring**—Sept. 24, by Highlands Co., grading 13 mi. road from Lake Jackson to Hardee Co. line and road from Lake Annie to Parker Island, 16 ft., 39 acres clearing, 45,000 cu.yd. excav., $29,000; 7 mi. road from Sick Island to Kissimmee River, 16 ft., 36 acres clearing, 75,000 cu.yd. excav., $40,000. Peacock & Hood, Sebring, engr.

**Alabama** — Oct. 9, by State Hy. Dept., Montgomery, improving 14.293 mi. Ashland-Heflin Rd., Federal Aid Project 136, Clay Co., 64 acres clearing, 93,666 cu.yd. common and 46,146 cu.yd. solid rock excav.; 27,847 sta.yd. overhaul, 50,000 cu.yd. top soil, 15,000 half mi. units additional haul, etc. W. S. Keller, state highway engr.

**Miss., Brandon**—Sept. 28, by Supervs. Rankin Co. grading, gravel surfacing and bridging 20.322 mi. Federal Aid 163 from Jackson to Meridian, 161,697 cu.yd. earth and 85,530 cu.yd. borrow excav., 1,589 cu.yd. concrete, 122,098 units gravel, etc. H. C. Dietzer, State Hy. Dept., Jackson, engr.

**Miss., Brandon**—Sept. 28, by Bd. Supervs. Rankin Co., Court House, grading, gravel surfacing and bridging 3.473 mi. Federal Aid 162, between Jackson and Plain, 136,902 cu.yd. borrow excav., 123.9 sq.yd. concrete 27,742 cu.yd. gravel, etc. H. C. Dietzer, c/o State Hy. Dept., Jackson, engr.

**Miss., Water Valley**—Oct. 1, (change of date) by Supervs. Yalobusha Co., grading and gravel surfacing 12.492 mi. Federal Aid Project 161, from Grenada to Holly Springs, 60,628 cu.yd. earth, 72,699 cu.yd. borrow, 73,632 cu.yd. gravel, etc., H. C. Dietzer, c/o State Hy. Dept., Jackson, engr. Noted Sept. 6.

**O., Cleveland**—Sept. 26, paving Camden, Continental and Crestwood Ave., and repairing pavements in Rockefeller and Wade Parks. To exceed $25,000. R. Hoffman, city engr.

**Ind., Jeffersonville**—Oct. 1, by Clark Co., constructing Jackson Unit Rd., Carr Twp $25,000. K. P. Barnes, co. engr.

**Michigan**—Oct. 1, by State Hy. Dept., Lansing, grading and surfacing 3.869 mi. State Trunk Line Rd. 13-48, Kent Co., 17,711 cu.yd. excav., 43,352 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state comr.

**Michigan**—Oct. 3, by State Hy. Dept., Lansing, grading and surfacing 5.696 mi. Federal Aid Project 89, Sect. D, Jackson Co., 22,622 cu.yd. excav. and 66,860 sq.yd. asphalt, concrete or bituminous concrete. F. F. Rogers, state comr.

**Illinois**—Sept. 26, by Dept. Pub. Wks. and Buildings, Div. Highways, Springfield, paving 76.01 mi. with portland cement concrete, 4 in. monolithic brick, 4 in. bituminous filled brick, bituminous concrete with or without binder course. Cement will be furnished. Grading 63.82 mi. involving 971,747 cu.yd. excav. and 5,850 cu.yd. concrete. C. H. Older, ch. highway engr.

**Ill., Winnetka**—Sept. 25, by Bd. Local Impvts., 12,000 sq.yd. rein-con. paving, drainage, catchbasins, etc. Windes & Marsh, 598 Birch St., engrs.

**Wis., Milwaukee**—Sept. 21, by Dept. Pub. Wks., new pavements, etc., on American, Illinois, Indiana, 2nd and 10th Aves., Booth, Clarke, Dakota, 46th and Vliet Sts., also various alleys 21,825 sq.yd. concrete, 6,802 sq.yd. sheet asphalt, 4,024 sq.yd. vibrolithic concrete, asphaltic concrete or plain concrete, 6,357 cu.yd excav. J. Schwada, city engr.

**Minn., St. Paul**—Oct. 1, by G. J. Ries, aud. Ramsey Co., grading, etc. Project 23-60, Prescott connection between Point Douglas Rd. and Minnesota Trunk Highway 3, 78,453 cu.yd. earth, 1,150 cu.yd. loose and 15,260 cu.yd. solid rock excav., 351,428 cu.yd. overhaul, 20,710 lb. steel, $50,000; Project 23-69, Lake Phalen Blvd. between city limits and Minnesota Trunk High way 1, 3,910 cu.yd. excav., 19,177 sq.yd. bituminous macadam or asphaltic concrete Class B on crushed stone or asphaltic concrete, 11,566 lin.ft. concrete gutter, etc., $70 000. P. N. Coates, co. surv.

**Kan., Ft. Scott**—Sept. 24, by B. Boyle, co. engr. Bourbon Co., concrete paving 2 mi. Federal Aid Project 117, 18 ft.

**Kan., Topeka**—Oct. 5, by Clerk Decatur Co., grading, etc., 9.62 mi. Kansas City-Denver Air Line Rd., Federal Aid Project 165, Sect. A, 28 ft. Kansas Eng. Co., Topeka, engrs.

**Tex., Barstow**—Oct. 9, by E. W. Suratt, judge Ward Co., grading and gravel surfacing 5.5 mi. State Highway 1, Federal Aid Project 391 A, 18 ft. $45,184. R. E. Booker, Monahans, res. engr.

**Tex., Dallas**—City Com. taking bids paving, curbing, guttering and widening Marlborough St. from Jefferson to Brooklyn Sts., brick, bitulithic, rock asphalt or other type. $25,000. E. A. Kingsley, city engr.

**Tex., Ennis** — City Com. taking bids permanent paving, curbing and guttering 2½ mi. East Ave., Mains, Dallas, Baylor, McKinney Sts., et. al., miscellaneous types, $60,000. H. McCandless, Ennis, engr. Noted Sept. 13.

**Tex., Ft. Worth**—Sept. 25, 9,800 sq.yd. paving, bitulithic rock asphalt, amiesite or 3 in. vertical fibre brick on concrete, 7,000 sq.ft. curb and gutter, 2,900 cu.yd. excav. on West Bway., White and Tremont Sts. $40,000. D. L. Lewis, city engr.

**Tex., Hillsboro**—Sept. 28, by W. L. Wray, judge Hill Co., grading and gravel surfacing 5.65 mi. State Highway 2 E, Itasca Dist., 16 ft., $66,000, 4.85 mi. State Highway 2 E, Covington Dist., 16 ft., $64,000. Will be surfaced later with bituminous topping. G. R. Johnston, co. engr. Noted Aug. 30.

**Okla., Tahlequah**—Sept. 25, by E. Covell, city clk., paving Muskogee Ave., 14,200 sq. yd. concrete, etc. $46,000. Benham Eng. Co., Gumble Bldg., Kansas City, Mo., engrs. Noted Aug. 30.

**Calif., Oakland**—Receiving bids improving 9th St., 37,500 sq.ft. grading, 2,400 sq. ft. concrete gutter, 35,100 sq.ft. asphaltic concrete, etc.; 6th St., 58,222 sq.ft. grading, 55,706 sq.ft. 3 in. warrenite bitulithic on 4 in. asphaltic concrete, 2,164 lin.ft. concrete curb, etc.; Castro St., 78,405 sq.ft. grading, 2,583 lin.ft. concrete curb, 75,257 sq.ft. 2 in. warrenite bitulithic on 6 in. concrete, etc.; 15th St., 40,177 sq.ft grading, 1,360 sq.ft. concrete gutter, 26,050 sq.ft. 2 in. warrenite bitulithic on 6 in. concrete, etc. W. W. Harmon, city engr.

### BIDS RECEIVED

**N. Y., Brooklyn** — E. Riegelmann, boro pres., Boro Hall, Sept. 12, repaving with sheet asphalt (1) Georgia Ave. (2) Prospect Ave. (3) Prospect Ave.; repaving with permanent asphalt (4) Schenectady Ave. (5) Kings Highway (6) Forrest St. (7) Joralemon St. (8) Manhattan Ave. (9) 67th St.; repaving with grade 1 granite pavement (10) Kent Ave. (11) 41st St. (12) Forrest St.; grading (13) Flatbush Ave. south of Ave. U, from Borough Asphalt Co., 1301 Metropolitan Ave., (1) $13,389 (8) $146,709; Cleveland Trinidad Paving Co., Flushing, (4) $17,705; Cranford Co., 52 9th St., (6) $5,706 (9) $9,627; Uvalde Asphalt Paving Co., 1 Bway., New York, (2) $12,143 (3) $39,830; J. Meehan & Son, 74 Cortlandt, New York, (10) $45,468; W. H. Geoghegan Realty Co., (13) $441,504; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (5) $124,814 (7) $9,726; M. J. O'Hara Contg. Co., 717 65th St. (11) $19,405; F. J. Gallagher, 490 Park Pl., (12) $18,333. Noted Sept. 6.

**N. Y., St. George**—J. A. Lynch, pres. Richmond Boro, Boro Hall, repaving with bituminous concrete roadway of Myrtle Ave., from W. P. MacDonald Constr. Co., 342 Madison Ave., New York, $45,760; concrete curbing and guttering, etc., Benziger Ave., from J. Johnson Sons, 455 Bway., West New Brighton, $6,632. Noted Sept. 6.

**N. Y., St. George** — J. A. Lynch, pres. Richmond Boro, Borough Hall, Sept. 16, bituminous concrete repaving Grove Ave., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $60,808; laying concrete curb and gutter 4 ft. wide on south side Lincoln Ave., from F. Leedecke, $4,734. Noted Sept. 13.

**Pennsylvania**—State Hy. Dept., Harrisburg, Sept. 11, improving roads (**R. means Route and A. means Application**) R. 54, Cherryhill and Rayne Twps., Indiana Co., from Burnside Constr. Co. Inc., Burnside, $309,449; R. 52 and A. 1361 Boswell Boro., Somerset Co., from C. J. Newman & Co., Boswell, $22,010; R. 160 Shoemakersville Boro. and Perry Twp., Berks Co. from Ambler-Davis Co., Harrison Bldg., Phila., $60,643; A. 1467 Harbor Creek Twp., Erie Co., from C. H. Fry Constr. Co., Cherry and 19th Sts., Erie, $110,629; R. 117, Everson Boro., Fayette Co., from J. I. Dick, Scottdale, $37,742; R. 79, Butler, Connoquenessing and Franklin Twps., Butler Co., from Burns Bros., 343 East Washington St., New Castle, $309,121; R. 149, Wyomissing and West Reading Boros., Berks Co., from Ambler-Davis Co., Harrison Bldg., Phila., $71,070; A. 2557, Northampton Boro-Northampton Co., from General Paving Co., B & B Bldg., Allentown, $42,352; R. 138,

Streets and Roads (Continued)

A. 1555 Manheim Boro., Lancaster Co., from Swenger-Fackler Constr. Co. Inc., 2nd and Canal Sts., Lebanon, $43,580; A. 2002, Shrewsbury Twp. and New Freedom Boro., York Co., from W. C. Guncheon & Co., Masonic Bldg., Harrisburg, $57,602; R. 69, South Buffalo Twp., Armstrong Co., from F. S. Wilson, Kittanning, $89,944; R. 212, Burlington and North Towanda Twps., Bradford Co., from A. W. Hinaman, Canton, O., $267,087; A. 874, Fayette City Boro., Washington Twp., Fayette Co., from P. Derienzio, Box 137 Fayette City, $15,055; R. 131 Middletown Twp., Delaware Co., from Highway Constr. Co., Phila., $100,074; R. 268, Jefferson Boro., Greene Co., from Reed & Moore, Waynesburg, $39,209; R. 120, Irwin Boro., Westmoreland Co., from H. DeAngelis, P. O. B. 814, Irwin, $69,603; R. 116, Smithfield Boro., Georges Twp., Fayette Co., from E. B. Swaney, R. D. 5, Uniontown, $84,130; R. 83, A. 1558, Conneaut Lake Boro., Sadsbury, Summit and Pine Twps., Crawford Co., from H. E. Bunce, Linesville, $252,936. Noted Aug. 30.

**Maryland**—State Rds. Comn., Baltimore, 1.02 mi. concrete road from New Windsor toward Oak-Orchard, **Carroll Co., Contr.** C1-43, from Gosnell, Russell Co., Frederick, $39,867. Noted Sept. 6.

**La., Lake Charles**—Paving 40,000 sq.yd. various streets, from Stewart & Ritchie, Wichita, Kan., concrete, $115,000, brick, $144,000; Southern Roads Co., American Trust Bldg., Birmingham, Ala., bitulithic, $130,000.

**Ohio**—Dept. Highways and Pub. Wks., Columbus, Sept. 14, grading, bridging and paving roads as follows: **(1)** Sect. "F-1," Lima-Spencerville Rd., Allen Co. **(2)** 3 mi. Sect. "M" Barnesville-Bellaire Rd., Belmont Co. **(3)** 2.93 mi. Sect. "P-2" Cincinnati-West Union Rd., Brown Co. **(4)** 6.122 mi. Sect. "Q," Cincinnati-West Union Rd., Brown Co. **(5)** 0.215 mi. Sect. "E" Coshocton-Mt. Vernon Rd., Coshocton Co. **(6)** 0.393 mi. Sect. "A" Coshocton-Plainfield-Cambridge Rd., Coshocton Co. **(7)** 0.912 mi. Sect. "Bloomingburg" Washington-London Rd., Fayette Co. **(8)** 3.17 mi. Sects. "D-J-L 2" Archbold-Fayette Rd., Fulton Co. **(9)** 0.626 mi. Sects. "H-G-J-K" Cleveland-Meadville Rd., Geauga Co. **(10)** 2.367 mi. Sect. "G-1" Cadiz-Carrollton Rd., Harrison Co. **(11)** 5.287 mi. Sect. "B-1" Toledo-Napoleon Rd., Henry Co. **(12)** 0.65 mi. Sect. "Napoleon" Toledo-Napoleon Rd., Henry Co. **(13)** 3.437 mi. Sects. "N-1" and "N-3" Maumee, Toledo-Napoleon Rd., Lucas Co. **(14)** 3.437 mi. Toledo-Napoleon Rd., Lucas Co. **(15)** 1.4164 mi. Toledo-Napoleon Rd., Lucas Co. **(16)** 1.4164 mi. Toledo-Napoleon Rd., Lucts Co. **(17)** 2508 mi. Sect. "B" Youngstown-East Liverpool Rd., Mahoning Co. **(18)** 0.734 mi. Sect. "Covington" Piqua-Covington Rd., Miami Co. **(19)** 0.734 mi. Sect. "Covington" Piqua-Covington Rd., extra width, Miami Co. **(20)** 2.494 mi. Sect. "A" Germantown-Middletown Rd., Montgomery Co. **(21)** 2.158 mi. Sect. "I-2" McConnellsville-New Lexington Rd., Morgan Co. **(22)** 0.75 mi. Sect. "K-2" McConnellsville-Caldwell Rd., Morgan Co. **(23)** 1.09 mi. Sect. "A" Greenville-New Paris Rd., Preble Co. **(24)** 1.54 mi. Sect. "A-1" Fremont-Port Clinton Rd., Sandusky Co. **(25)** 1.712 mi. Sect. "B" Fremont-Republic Rd., Sandusky Co. **(26)** 2.849 mi. Sect. "B" Portsmouth-Jackson Rd., Scioto Co. **(27)** 0.681 mi. Sect. "C" Portsmouth-Jackson Rd., Scioto Co. **(28)** 2.01 mi. Sect. "A" Fremont-Republic Rd., Seneca Co. **(29)** 1.596 mi. Sect. "P" Cleveland-Massillon Rd., Stark Co. **(30)** 1.561 mi. Sects. "C" and "D-1" Massillon-Wooster Rd., Stark Co. **(31)** 1.49 mi. Sect. "I" Cleveland-Massillon Rd., Summit Co. **(32)** 2.7 mi. Sect. "J" Cleveland-Massillon Rd., Summit Co. **(33)** 3.44 mi. Sect. "K" Cleveland-Massillon Rd., Summit Co. **(34)** 1.7 mi. Sect. "L" Cleveland-Massillon Rd., Summit Co. **(35)** 1.39 mi. Sect. "M" Cleveland-Massillon Rd., Summit Co. **(36)** 1.203 mi. Sect. "I" Akron-Wooster Rd., Wayne Co. **(37)** Sects. "E-1" and "E-3" Bowling Green-Findlay Rd., Wood Co. **(38)** 3.127 mi. Sect. "E" Savannah-Vermillion Rd., Huron Co. **(39)** grading and constructing drainage structures 3.538 mi. Sect. "A-1" Dennison-National Rd., Tuscarawas Co. **(40)** 7.343 mi. Sect. "G" Marietta-Athens Rd., Washington Co. **(41)** 4.368 mi. Sect. "A" Toledo-Grand Rapids Rd., Wood Co. **(42)** 5.475 mi. Sect. "E" Toledo-Grand Rapids Rd., Wood Co. **(43)** grading, constructing drainage structures and placing loose limestone 0.208 mi. Sect. "H" Marysville-Marion Rd., Union Co. **(44)** concrete curbing 1 mi. Sect. "L" Bucyrus-Marion Rd., Crawford Co., **(45)** grading, bridging and paving 3.249 mi. Sect. "L" New Philadelphia - West Lafayette Rd., Tuscarawas Co. with **(a)** bituminous macadam asphalt **(b)** bituminous macadam tar **(c)** Kentucky rock asphalt **(d)** waterbound macadam **(e)** rein.-con. **(f)** brick **(g)** concrete and gravel **(h)** sheet asphalt **(i)** plain concrete **(j)** tar macadam **(k)** asphalt macadam **(l)** rein.-con. and brick **(m)** bituminous concrete and brick **(n)** bituminous concrete **(o)** bituminous macadam **(p)** bituminous concrete, from Agerter & Scott, Lima, **(1a)** $19,501 **(1b)** $19,867; Frost Constr. Co., Findlay, **(1c)** $23,188; Andrews Asphalt Paving Co., Hamilton, **(1p)** $29,560; E. A. Hatcher, Mingo Junction, **(2a)** $104,916; H. F. Dougherty, Steubenville, **(2b)** $100,433; Craig & Jordan, Blanchester, **(3d)** $44,156; Bashford & Day, Peebles, **(4d)** $181,851; McClery & McGregor, West Lafayette, **(5e)** $6,185 **(6e)** $10,666; O. C. Morrow, Crestline, **(44)** $4,577; M. J. Cooney, Springfield, **(7f with macadam base)** $40,978 **(7f with concrete and macadam base)** $40,858; La-Boiteaux & Hoyes, Toledo, **(8d)** $22,670; J. A. Stein, Niles, **(9g)** $12,846; Billiter & Oliver Bros., Cincinnati, **(10a)** $75,240 **(10b)** $75,240; A. Langenderfer, Toledo, **(11a)** $94,363 **(11b)** $94,865 **(12e)** $20,899; Greager Bros., Liberty Center, **(11c)** $118,-963; Johnson, Van Wagoner & Johnson, Toledo, **(13f)** $208,304 **(13e)** $172,969 **(14f)** $122,974 **(14e)** $105,598 **(15f)** $89,444 **(16f)** $67,841 **(16e)** $57,243; Dorsey Constr. Co., Findlay, **(13h)** $179,294 **(14h)** $109,268 **(15h)** $77,453 **(16h)** $59,557; Continental Bitumen Co., Toledo, **(13q)** $195,716 **(14q)** $116,840 **(15q)** $84,101 **(16q)** $64,153; T. W. Miller Co., 115 West Princeton Ave., Youngstown, **(17a)** $53,792; G. A. Gialdini, Youngstown, **(17b)** $48,448; Wapakoneta Cement Block Co., Wapakoneta, **(18f)** $24,-568 **(19f)** $26,246 **(29e)** $67,985; J. G. Mercer Sons, Miami, **(18i)** $12,199; Stocker & Warren, Greenville, **(19i)** $19,318; Biegler Bros., Middletown, **(20e)** $60,491; W. D. Winchell Co., 337 Siebert St., Columbus, **(20c)** $68,968; N. B. Koffroth, Richwood, **(21a)** $55,349 **(21j)** $56,286; E. H. Clifton, Eaglesport, **(22k)** $31,175; Hughes & Wilson, Malta, **(22j)** $31,499; H. W. Curry, Eaton, **(23e)** $31,720 **(23k)** $27,491; Hiatt Constr. Co., New Paris, **(23i)** $37,338; F. Tejan, 1336 East 3rd St., Dayton, **(23j)** 26,873; Seneca Constr. Co., Kansas, **(24e)** $50,097 **(25f)** $60,877 **(25e)** $56,135 **(28i)** $71,189 **(28f)** $80,873; N. B. Putnam, Van Wert, **(25a)** $43,919 **(25b)** $43,838; Mountain & Cloran, Ironton, **(26a)** $91,453; W. C. Moore, Marysville, **(27f)** $29,060; J. Herzog, Forrest, **(28k)** $51,460 and $52,-970; W. E. Burk & Sons, Akron, **(29f)** $77,671; G. F. Druschel, Kenton, **(29k)** $58,124; Holmes Constr. Co., Wooster, **(30f)** $59,698 **(31m)** $71,291 **(32n)** $103,139 **(33n)** $144,871 **(34n)** $64,624 **(36f)** $50,423; McArthur Constr. Co., Kenton, **(31l)** $66,625 **(32l)** $97,610 **(33l)** $139,745 **(34l)** $62,059 **(35l)** $65,987; McCourt Constr. Co., Akron, **(45n)** $68,017; Leroy Springer Co., New Philadelphia, **(45e)** $118,651; L. C. Bell Co., West Mansfield, **(39)** $46,677; C. O. Hurd, Marysville, **(43)** $19,804; C. A. Baker Co., Columbus, **(40)** $136,075; Shoyer & Kill Co., Akron, **(36e)** $42,686; W. G. Reimund, Holgate, **(41)** $30,595 **(42)** $35,759; H. P. Streicher Co., 319 Terminal Bldg., Toledo, **(37o)** $19,710; J. W. McDowell, Ottawa, **(37c)** $19,486 **(38c)** $30,-655; Public Works Constr. Co., 57 Wiggins Blk., Cincinnati, **(38p)** $38,862.

**O., Cleveland**—Paving with asphalt and concrete, East 18th, East 19th and East 24th Sts., from Highway Constr. Co., 903 Lorain County Bank Bldg., Elyria, $29,721, $16,996 and $14,812 respectively; East 131st St., from Gould & Mayback, 16311 Saranac Rd., $17,246; Elbra Court, from A. M. Pejsa Paving Co., 3161 Derbyshire Rd., $3,121. Work involves 20,150 sq.yd. asphalt and 3,925 sq.yd. concrete.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 5.14 mi. State Trunk Line Rd. 95-1, Presque Isle Co., 25, 401 cu.yd. excav., 48,249 sq.yd. gravel, from L. W. Edison, Charlevoix, $53,470; 4.146 mi. State Trunk Line Rd. 33-3, Sect. B, Oscoda Co., 23,946 cu.yd. excav., 38,851 sq.yd gravel, from Edwards Constr. Co., 1920 Clinton Ave., Saginaw, $36,470; 4.988 mi. State Trunk Line Rd. 18-24 Gladwin Co., 42,127 cu.yd. excav., 46,883 sq.yd. gravel, from B. F. Raymond, Gladwin, $47,828. Noted Aug. 23.

**Michigan**—State Hy. Dept., Lansing, grading 4.197 mi. Federal Aid Project 50, Sect. B, Monroe Co., from Closser Bros., 8427 Senator Ave., Detroit, $40,492. Noted Sept. 6.

**Minn., St. Paul**—Ramsey Co., Sept. 10, improving Centerville Rd. between Edgerton St. and North Birch Lake Blvd., 47,500 cu.yd. excav., 194,000 cu.yd. overhaul, 40,700 sq.yd. paving, from Hanlon & Okes, 338 Lumber Exchange, Minneapolis, $2.45 per sq.yd. for one course concrete, Class A, $2.36 for Class B and $2.36 for Class C.; 1.69 per sq.yd. for asphaltic concrete on 6 in. concrete base Class A, $1.62 for Class B and $1.62 for Class C. Noted Aug. 23.

**Missouri**—State Hy. Dept., Jefferson City, grading roads **(S. P. 1-5 Atchison means State Project, Route 1, Sect. 5, Atchinson Co.) 5 mi. S. P. 1-5 Atchinson**, 88,450 cu.yd. earth and 2,611 cu.yd. borrow excav., etc., from G. W. Condon, 510 Farnam Bldg., Omaha, Neb., $39,084, **0.606 mi. S. P. 70-4 Madison**, from General Constr. Co., Syndicate Trust Bldg., St. Louis, $8,140, **3.723 mi. S. P. 5-91 Douglas**, from Allhands & Davis, 705-6 Frisco Bldg., Joplin, $22,831, **4.789 mi. S. P. 15-62 Miller**, from G. R. Graffeureid, Bagnell, $17,659, **4.606 mi. S. P. 3-4 Mercer**, from M. Haase, Trenton, $19,020, **2.34 mi. S. P. 13-14 Ray**, from L. A. Woods Constr. Co., Smithville, $12,072, **3.817 mi. S. P. 16-9 Newton**, from Kelly & Underwood, Granby, $17,550, **3.37 mi. S. P. 1-107 Newton**, from J. P. Wolfenbarger, Mosho, $9,835, **4.451 mi. S. P. 10-18 Carroll**, from E. C. Johnson, Carrollton, $7,605, **5 mi. S. P. 16-10 Barry**, from Kelly & Underwood, Granby, $6,758, **2.147 mi. S. P. 12-42 Osage**, from Birmingham & Terry, Vienna, $5,381, **4.943 mi. S. P. 35-6 Cass**, from L. A. Woods Constr. Co., Smithville, $16,322, **2.784 mi. S. P. 10-19 Carroll**, from E. C. Johnson, Carrollton, $9,388, **3.136 mi. S. P. 10-17 Carroll**, from A. W. Mosley, Gilliam, $8,675, **2.2 mi. S. P. 16-7 Newton**, from C. I. Williams, Monett, $9,953, **4.943 mi. S. P. 35-7 Cass**, from L. A. Woods Constr. Co., Smithville, $19,590, **3.976 mi. S. P. 5-1 Putnam**, from L. W. Spengler, Mexico, $22,395, **4.919 mi. S. P. 3-3 Mercer**, from M. Hasse, Trenton, $24,220, **1.108 mi. S. P. 12-43 Gasconade**, from A. L. Cook, Ottawa, Kan., $26,553, **4.656 mi. S. P. 35-8 Cass**, 41,637 cu.yd. earth, 3,721 cu.yd. solid rock, and 13,455 cu.yd. borrow excav., 14,580 cu.yd. overhaul, etc., from L. A. Woods Constr. Co., Smithville, $32,574, **4.171 mi. S. P. 8-70 Marion**, 65,782 cu.yd. earth and 14,473 cu.yd. loose rock excav., 50,875 cu.yd. overhaul, etc., from Cameron & Joyce, Keokuk, Ia., $63,717, **5 mi. S. P. 31-2 De Kalb**, 28,676 cu.yd. earth and 3,716 cu.yd. borrow excav., etc., from L. W. Spengler, Mexico, $26,174, **4.98 mi. S. P. 13-15 Ray**, 25,379 cu.yd. earth and 40,596 cu.yd. borrow excav., etc., from L. A. Woods Constr. Co., Smithville, $24,946, **4.242 mi. S. P. 29-1 Worth**, from A. L. Cook, Ottawa, Kansas, $23,224; surfacing **4 mi. S. P. 2-2 Jackson**, 22,431 cu.yd. earth and 3,507 cu.yd. loose rock excav., 39,972 sq.yd. rein. con., etc., from Highway Constr. Co., Webb City, $123,781, **1.462 mi. S. P. 14-85 St. Louis**, 5,532 cu.yd. earth excav., 44,033 sq.yd. sledge stone base, 178,-508 sq.yd. rock asphalt, etc., from E. C. Johnson, Carrollton, $35,350, **4.318 mi. S. P. 5-37 Howard**, 40,895 sq.yd. chats, etc., from Highway Constr. Co., Webb City, $60,001, **3.432 mi. S. P. 55 A-2 Mississippi**, 7,920 cu.yd. earth and 3,874 cu.yd. borrow excav., 19,727 sq.yd. concrete, 12,796 sq.yd. gravel surfacing, etc., from R. L. Williams, Wyatt, $73,372; grading roads **(F. P. 205 B Buchanan means Federal Project 205 B, Buchanan Co.), 4.202 mi. F. P. 205 B Buchanan**, from J. Stanton & Son, 5th and Kiowa Sts., Leavenworth, Kan., $20,500, **2.258 mi. F. P. 205 C Buchanan**, 28,770 cu.yd. earth and 61,571 cu.yd. borrow excav., 27,600 cu.yd. overhaul, etc., from C. H. Schmidt, 3108 Jule St., St. Joseph, $43,663, **F. P. 234 A De Kalb**, 47,933 cu.yd. earth and 20,316 cu.yd. borrow excav., etc., and **4.948 mi. F. P. 234 B De Kalb**, 18,874 cu.yd. earth and 9,390 cu.yd. borrow excav., 18,727 cu.yd. overhaul, etc., from Land Constr. Co., Ballinger Bldg., St. Joseph, $33,533 and $30,546 respectively, **3.593 mi. F. P. 167 F Bates**, 79,022 cu.yd. borrow, etc., from Kelly & Underwood, Granby, $32,759; grading and concrete paving **2.258 mi. F. P. 205 C. Buchanan**, 28,770 cu.yd. earth and 61,571 cu.yd. borrow excav., 27,600 cu.yd. overhaul, 23,354 sq.yd. concrete, etc., and **4.202 mi. F. P. 205 B Buchanan**, 20,515 cu.yd. earth and 3,322 cu.yd. borrow excav., 25,260 cu.yd. overhaul, 44,369 sq.yd. concrete, etc., from J. Stanton & Son, 5th and Kiowa Sts., Leavenworth, Kan., $106,358 and $147,173 respectively, concrete paving **2.258 mi. F. P. 205 C Buchanan**, 23,354 sq.yd. concrete, from J. Stanton & Son, 5th and Kiowa Sts., Leavenworth, Kan., $64,156; grading and paving roads **(F and S P. 205 A, Buchanan, means Federal and State Project 205 A, Buchanan Co.) 2.599 mi. F and S. P. 205 A Buchanan**, 98,034 cu.yd. borrow, 26,526 sq.yd. concrete, etc., grading **2.599 mi. F. and S. P. 205 A, Buchanan**, 98,034 cu.yd. borrow and 4,331 cu.yd. earth excav., etc., concrete paving **2.599 mi. F. and S. P. 205 A Buchanan**, 26,526 sq.yd. concrete and **4.202 mi. F. and S. P. 205 B Buchanan**, 44,369 sq.yd. concrete, etc., from J. Stanton & Sons, 5th and Kiowa Sts., Leavenworth, Kan., $120,367, $44,933, $78,174 and $131,-113 respectively. Noted Aug. 30.

**Mo., St. Louis**—From Granite Bituminous Paving Co., Ry. Exch. Bldg., grading and surfacing with bitulithic on concrete 6,945 sq.yd. Dickson St., $422,702, 6,950 sq.yd.

Streets and Roads (Continued) -

Thomas St., $41,003, 7,810 sq.yd. Dayton St., $16,017, 8,775 sq.yd. California St., $47,273; from Brighton Constr. Co., 4115 McKee St., removing old brick and paving with refined asphalt 9,225 sq.yd. Hamilton St., $35,986; from W. Haffner, 715 South Vandeventer St., grading and paving with granite blocks, 4,410 sq.yd. Madison St., $37,512. Noted Aug. 23.

**Tex., Austin**—Travis Co. grading and bridging 7.92 mi. State Highway 20 A, between Oak Hill and Co. line, 24 ft., from H. J. Evans, 500 West 15th St., $39,619. Engs. est. $38,473 incl. 10 per cent for engineering and contingencies. Noted Aug 23.

**Tex., Brenham**—Washington Co., grading and bridging 17.3 mi. State Highway 36, Federal Aid Project 358, 24 ft., from Wormack Constr. Co., Sherman, $123,976. Engrs. est. $165,000, incl. engineering and contingencies. Noted Aug. 16.

**Tex., Houston**—Asphalt paving Waugh Dr., from Smith Bros., Sumpter Bldg., Dallas, $100,087. Noted Sept. 6.

**Tex., Pittsburg**—Camp Co. grading, surfacing with crushed iron ore rock base, bituminous topping and bridging 6.19 mi. State Highway 11, 18 ft., from Womack Constr. Co., Sherman, $147,336. Engrs. est. $159,475 incl. engineering and contingencies. Noted Aug. 9.

**Colorado**—State Hy. Dept., Denver, concrete paving 2.998 mi. Pueblo-Trinidad Rd., Federal Aid Project 2 R, Las Animas Co., from Strange-Mackey Constr. Co., Colorado Springs, plain cement $95,614, coarse aggregate specifications $112,345, Topeka pavement specifications $112,345, warrenite bitulithic pavement $110,850; 3 mi. State Project 806, El Paso Co., from R. P. Morrison, Golden, $17,097; mountain grading 5.621 mi. Federal Aid Project 224, Park Co., from M. J. Kenney, Bank Blk., Denver, $54,347; paving 2.463 mi. Federal Aid Project 252, Larimer Co., from F. C. Dreher Constr. Co., Cooper Bldg., Denver, $84,677; gravel surfacing and bridging 0.377 mi. Federal Aid Project 241, Delta Co., from Winterburn & Lumsden, Grand Junction, $99,310; gravel surfacing 5.372 mi. Federal Aid Project 240, Eagle Co., from A. L. Hackett, Gypsum, $66,178; grading and gravel surfacing 4.545 mi. Federal Aid Project 245, Bent Co., from W. A. Colt & Son, Las Animas, $42,786.

**California**—State Hy. Dept., Sacramento, grading and graveling 3 mi. road between point 1/5 mi. south of San Benito River and Pajaro River Bridge, San Benito Co., from Granite Constr. Co., Watsonville, $76,947.

**Calif., Eureka**—Improving H St., 476,556 sq.ft. grading, 476,556 sq.ft. 1½ in. warrenite bitulithic on 3½ in. asphaltic concrete, etc., and Fairfield St., 160,990 sq.ft. grading, 160,990 sq.ft. 1½ in. warrenite bitulithic on 2 in. asphaltic concrete, etc., from Mercer-Fraser Co., Eureka, $142,376 and $35,251 respectively. Noted Sept. 20.

**Calif., Ft. Bragg**—Improving Laurel and Redwood Sts., etc., 264,290 sq.ft. grading, 206,507 ft. 3½ in. asphaltic concrete, 57,720 sq.ft. 4½ in. asphaltic concrete, etc., from J. A. Costello, 1083 Shotwell St., San Francisco, $64,050. Noted Sept. 6.

**Calif., Fresno**—Fresno Co. improving 9.7 mi. roads, from Thompson Bros., G and Divisadero Sts., 14,729 cu.yd. excav. at $0.85 per cu.yd., 822,755 sq.ft. 4 in. asphaltic concrete $0.16, etc., total $144,160. Noted Sept. 6.

**Calif., Los Angeles** — Improving Vernon Ave., from W. Liddington, 420 East 60th St., total for grading $4,995, 166,477 sq.ft. concrete at $0.23 1/3 per sq.ft., 18,410 sq. ft. walks $0.19, etc., total $51,700. Noted Sept. 13.

**Calif., Martinez**—Contra Costa Co improving Rd. Dist. 1, from California Constr. Co., 58 2nd St., San Francisco, 650,000 sq. ft. grading at $0.02 per sq.ft., 440,000 ft. 1½ in. warrenite bitulithic on 3 in. asphaltic concrete $0.24, etc., total $125,049. Noted Aug. 30

**Calif., Martinez**—Contra Costa Co. improving Div. 36, county highway system, 3,800 cu.yd. embankment, 2,090 cu.yd. concrete, from Galbraith & Janes, Yuba City, $34,065. Noted Aug. 23.

**Calif., San Diego**—Common Council, improving Beech St., from Griffith Co., 25 14th St., 141,234 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous $0.174, 6,799 sq. ft. concrete sidewalk $0.23, etc., Elm and 31st Sts., from J. Engebretsen, McNeece Bldg., 11,161 cu.yd. excav. $1.70, 22,699 sq.ft. concrete sidewalk $0.30, 160 ft. timber trestle bridge on concrete footings $5,500, etc. Noted Aug. 23.

**Calif., Stockton**—San Joaquin Co., improving Lower Sacramento Rd., 1,000 cu.yd. grading, 300 tons gravel, 2,700 tons asphaltic concrete, etc., from Clark & Henery Constr. Co., 38 South Sutter St., $24,270. Noted Aug. 23.

## CONTRACTS AWARDED

**Vermont** — Dept. Highways, Montpelier, paving 2.35 mi. Williamstown, Mass., and Bennington Vt. Rd., in Pownal, 18 ft., 4,881 cu.yd. rein.-con., 15,686 cu.yd. earth excav., to D. S. McGrath, Inc., Adams, Mass., $105,564. Noted Aug. 30.

**N. Y., Brooklyn**—E. Riegelmann, boro pres., Boro Hall, to Galco Constr. Co., 745 Dean St., Brooklyn, block asphalt resurfacing Delamere Pl. $7,003, Ave. N $7,540, Gravesend Neck Rd. $15,118; to Cranford Co., 52 9th St., repaving with asphalt on concrete 79th St. $30,187; to Hastings Paving Co., 25 Broad St., New York, repaving with asphalt on concrete 41st St. $9,934; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., repaving asphalt on concrete, Bergen St. $8,730, and 60th St. $11,978; Borough Asphalt Co., 1301 Metropolitan Ave., repaving with asphalt on concrete Division Ave. $10,424; Greico Bros., 172 Russell St., repaving roadways of Flushing Ave. $35,267, Furman St. $5,642 asphalt on concrete, and Prospect Ave., grade 1 granite $81,470. Noted Sept. 6.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro. Queens Subway Bldg., grading, curbing, laying sidewalks, etc., on Beach 92nd St., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $31,830. Noted Sept. 13.

**N. Y., Long Island City**—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., to C. Curth, grading, curbing, laying sidewalks, etc., on Graham Ave., $11,878, regrading sidewalk space and paving sidewalks in 16th Ave., $2,031; to Welsh Bros. Contg. Co., Inc., 32 Queens St., Astoria, grading, curbing, laying sidewalks, etc., in Woodside Ave. $52,071, grading Queens Blvd. $52,845; to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, grading, curbing, laying sidewalks, etc. in Weirfield St. $6,030. Noted Sept. 6.

**N. Y., New York**—J. Miller, pres. Manhattan Boro, Municipal Bldg., to Interboro Asphalt Co., 2306 Creston Ave., repaving with sheet asphalt West 149th St., $36,889; to J. E. Gaffney, 438 East 91st St., West 150th and West 153rd Sts., $19,479 and $19,327 respectively; to W. J. Fitzgerald, 547 West 45th St., East 79th, East 77th, and East 74th Sts., $12,159, $9,239 and $9,983 respectively. Noted Sept. 13.

**N. Y., New York**—Park Bd., Municipal Bldg., sheet asphalt repaving roadway of West Dr. north of 102nd St., in Central Park, to Cleveland Trinidad Paving Co., Flushing, $42,180. Noted Sept. 13.

**Pa., Bessemer** — Grading, paving and curbing East Poland, West Poland and Main Sts., 5,367 lin.ft. brick on concrete, 3,240 lin.ft. concrete, to Freshwater Constr. Co., Chagrin Falls, O., $84,000.

**Pa., Cresson**—Paving 2nd St. incl. 5,600 sq.yd. paving, 3,500 lin.ft. cement curb, and 1,400 cu.yd. excav., to F. Murphy, 2623 West Chestnut Ave., Altoona, $30,086.

**Pa., Pittsburgh**—Paving Mansfield Ave., 19,500 sq.yd. asphaltic concrete, 1,800 tons binder, etc., to T. Cronin Co., South 18th St., $181,336.

**Md., Baltimore**—Paving streets listed in Contr. 242-NA, 14,000 sq.yd. asphalt, to American Paving Co., Montebello, $64,367. Noted Sept. 6.

**W. Va., Clarksburg**—Harrison Co., grading 4 mi. Laura Lee-Sardis Dist. Rd., 18 ft., to W. F. Allen, Clarksburg, $52,673; grading and concrete resurfacing 1½ mi. Mudlick Run-Adamsville Rd., 18 ft., to Ferguson & Holbert, Clarksburg, $37,573; grading and concrete paving 1 mi. Bridgeport-Boothsville Rd., 18 ft., to M. J. Fahey, Clarksburg, $37,235.

**North Carolina**—State Hy. Comn., Raleigh, grading and concrete paving 8.22 mi. State Project 592, Rockingham Co. and 4.03 mi. State Project 507, Alamance Co., to Ziegler & Dalton Constr. Co., Junction City, Kan., $252,889 and $110,879 respectively, 14.35 mi. State Project 185 C, Pitt Co., to Groves Co. and Shepard, Greenville, $404,938, 5.94 mi. State Project 641, Anson Co. and 9.5 mi. State Project 697 A, Union Co., to J. O. Heyworth, 606 South Michigan Ave., Chicago, $176,547 and $279,258 respectively, 4.95 mi. State Project 902, Buncombe Co., to Wilson Constr. Co., Rutherfordton. $195,957; grading and topsoiling 781 mi. State Project 495, Warren Co. and grading and concrete bridges and culverts on 8.23 mi. State Project 421, Franklin Co., to J. A. Marrow, Clarksville, Va., $38,408 and $55,510. Noted Sept. 13.

**Florida** — State Rd. Dept., Tallahassee, surfacing 7.121 mi. road between Wabasso and Sebastian River, Project 36 B, St. Lucie Co., 79,578 sq.yd. bituminous macadam, to C. F. Lytle, Jacksonville, $252,357; road from Pasco Co. line to Brooksville, Project 545, Hernando Co., 89,336 sq. yd. sheet asphalt, to Broadbent & Groeting, Ocala, $295,152. Noted Sept. 13.

**Alabama**—State Hy. Comn., Montgomery, grading and graveling 8 mi. Russellville-Phil Campbell Rd., Franklin Co., to S. C. Taylor, Wilsonville, $81,991. 20 mi. Haleyville-Double Springs Rd., Winston Co., to W. C. McCoy, La Fayette, $166,532. 10.21 mi. from Etowah Co. line to Center, Cherokee Co., to Stanley & Singer, La Fayette, $99,192; grading and asphalt paving 13 mi. Bee Line Highway near Hartselle, Morgan Co., to Texas Rd. Co., Great Southwestern Life Bldg., Dallas, Tex., $44,132; asphalt paving 2 mi. Attala-Gadsden Rd., Etowah Co., to Leslie Bros., Chattanooga, Tenn., $38,336; 12½ mi. Camden-Greenville Rd., Wilcox Co., to J. W. Gwin, 506 Hamilton St., Birmingham, $105,851. Noted Aug. 23.

**Miss., Greenwood** — Grading and paving various down-town streets, 44,382 sq.yd. 3 in. vertical fibre brick on concrete, asphalt filler, to E. A. Finch, Hattiesburg, $2.12 per sq.yd. Total $95,000.

**Tenn., Cookeville**—Putman Co. will construct 5 mi. highway between here and Overton Co. line, 16 ft., limestone, by day labor under supervision of State Dept. Hys. and Pub. Wks., Nashville.

**Kentucky**—State Hy. Dept., Frankfort, reconstructing Williamson Rd. to Falmouth Rd., State Projects 62 C and 21 C, Pendleton Co., 8,000 tons crushed stone, to Broaddus & Forbes, Richmond, $14,960; surfacing with waterbound macadam 5.467 mi. Hodgensville-Buffalo Rd., 18 ft., State Project 41, Sect. A, Larue Co., to McClellan & Gambell, Bowling Green, $113,704. Noted Sept. 6.

**O., Akron**—Bd. Control, asphalt paving 0.75 mi. Auldfarm Rd., to T. E. McShaffrey Constr. Co., 173 South Forge St., $53,260. Engrs. est. $60,000.

**O., Cleveland**—Grading and asphalt paving 7,620 sq.yd. Florian Ave., 4,750 ft. stone curbing and 4 in. tile drain, 2,580 cu.yd. earth excav., to Baldwin Bros., 4500 Euclid Ave., $44,151. Noted Sept. 13.

**O., Cleveland** — Paving West 17th St., Laflin and Searsdale Aves., to Roehl Bros. Paving and Constr. Co., West 25th St. and Clark Ave., $1,946, $4,099 and $17,802 respectively; East 117th St., to Garland Bros., 5806 Franklin Ave., $17,656; Sellern Ave., to H. G. Herring, Pavers Exchange, $4,706; East 111th St to Baldwin Bros., 4500 Euclid Ave., $9,244

**O., Columbus** — Franklin Co., grading, bridging and paving 1.93 mi. Rose Hill Rd., 16 ft., in Truro and Jefferson Twps., waterbound macadam, to Burns-Williams Co., 316 Stoneman Bldg., $37,223. Noted Sept. 13.

**O., Cuyahoga Heights** (Cleveland P. O.) —Paving 49th St., to Enterprise Paving & Constr. Co., 8444 Bway., Cleveland, $34,544. Noted Sept. 13.

**Michigan**—State Hy. Dept., Lansing, grading and surfacing 4.448 mi. State Trunk Line Rd. 15-12, Sect. B, Menominee Co., to Menominee Co. Rd. Comn., Menominee, $53,108; grading 4.152 mi. Federal Aid Project 82, Sect. A, Wayne Co., to Donaldson & Hull, Dryden, $28,866. Noted Aug. 23.

**Ill., Granite City**—To Sternberg & Powell, 37 West Van Buren St., Chicago, paving 7,500 ft. Madison St., brick on concrete, $70,000, grading and paving 3,000 ft. State St., brick on concrete, $28,000.

**Kan., Caldwell**—Paving various streets, 12,300 sq.yd. 3 in. vertical fibre brick, 7,370 lin.ft. 6 in. curb and gutter, 3,700 cu.yd. earth excav., to A. L. Cooke Constr. Co., Ottawa, $50,028. Engrs. est. $60,000. Noted Aug. 30.

**N. D., Hillsboro**—For 15,098 sq.yd. vibrolithic concrete, Federal Aid Project 61-D, to Northern Constr. Co., Grand Forks, $57,438.

**Ark., Camden**—Grading, curfacing, etc. 5,600 ft.in. Paving Dist. 5, to J. P. McNulty, Pine Bluff, $42,380. Noted Sept. 13.

**Tex., Dallas**—Paving with 2 in. bitulithic on concrete Knox and Medill Sts., to Central Bitulithic Co., Praetorian Bldg., $3.25 per sq.yd.

**Tex., Bonham**—Fannin Co. grading and surfacing with rein.-con. 7.35 mi. State Highway 5, Federal Aid Project 344, to J. C. Feild & Co., Denison, $243, 524. Engrs. est. $292,228. Noted Sept. 13.

**Tex., Ft. Worth**—Paving, curbing and guttering Green Ave., Illinois, Lee and Irma Sts., bitulithic, to West Texas Constr.

Streets and Roads (Continued)

Co., Cotton Exch. Bldg., $3.18. Noted Sept. 13.

**Tex., Houston**—Paving 45,000 sq.yd. Polk Ave. from Hutchins to Dumble Sts., 2 in. warrenite bitulithic on 6 in. concrete, to Gulf Bitulithic Co., Bankers Mortgage Bldg., $152,942.

**Tex., McKinney**—Collin Co. grading and gravel surfacing 22.56 mi. Blue Ridge, Farmersville, Celina, and Frisco Rds., all in Dist. 4, 18 ft., to Purvis & Son, W. T. Waggoner Bldg., Ft. Worth. $72,337. County to furnish gravel and stone.

**Ariz., Phoenix**—Paving sections of 7th and 9th Aves., Roosevelt, Portland, Latham, West Moreland, Culver, Willetta and Lynwood Sts., 4 and 5 in. asphaltic concrete, to Kisse burg, Schmidt & Hitchcock, Central Ave. and Apache St., $173,848. Noted Sept. 6.

**Wash., Tacoma**—Paving East 11th St. from Bridge to Canal Sts., asphaltic concrete, to Albertson, Cornell Bros. & Walsh, South 12th and Pacific Sts., $51,700.

**Calif., Compton**—To G. H. Oswald, 366 East 58th St., Los Angeles, improving Cedar and Spruce Sts., etc., 271,061 sq.ft. grading $0.03, 271,061 sq.ft. 5 in. concrete $0.215, 5,396 ft. house sewers $1.50, etc.; Poplar St., etc., 88,043 sq.ft. grading $0.03, 88,043 sq.ft. 5 in. concrete $0.215, 1,052 ft. house sewers $1.50, etc.

**Calif., East San Diego (branch of San Diego)**—Improving various streets, to California Constr. Co., Union Bldg., San Diego, 2,361,607 sq.ft. 1½ in. willite on 2½ in. concrete at $0.215 per sq.ft., 1,950 sq.ft. concrete sidewalk $9.26, etc., total $507,745.

**Calif., Los Angeles**—Los Angeles Co. improving 1.7 mi. Washington Blvd. between Culver and Los Angeles, to Griffith Co., Los Angeles Ry. Bldg., excav. $0.70 sq.ft., subbase $0.45 sq.yd., concrete base $2.20 sq. yd., asphalt wearing surface $0.54 sq.yd., walks $0.25 sq.ft., curb $0.75 lin.ft., gutter $0.30 sq.ft., total $249,050. Noted Aug. 23.

**Calif., San Diego**—Common Council, improving Ash St., to Griffith Co., 25 14th St., 145,042 sq.ft. 2 in. asphaltic concrete on 3 in. bituminous at $0.169 per sq.ft., etc., total $27,725. Noted Sept. 13.

# Industrial Works

## PROPOSED WORK

**N. H., Newington**—Atlantic Dyestuffs Co. plans three 1 story, brick and timber additions to plant. $60,000. Architect not announced.

**R. I., Providence**—Davol Rubber Co., 69 Point St., having plans prepared by F. P. Sheldon & Sons, engrs. and archts., R. I. Hospital Trust Bldg., 3 story, brick and steel plant, plain foundation, Point and Eddy Sts. $75,000.

**Conn., Hartford**—Belamose Corp., 303 Broadway, New York City, plans 1 story, 140 x 560 ft., brick and steel plant, here. Architect not announced.

**N. Y., Niagara Falls**—International Paper Co., Buffalo Ave., plans boiler house, $200,000. Private plans.

**N. Y., Niagara Falls**—Union Carbide Co., Union St., plans 75 x 160 ft. addition to present plant. $125,000. Private plans.

**Pa., Clearfield**—W. B. Holmesk, Jr., plans 2 story, 50 x 100 ft. brick garage, Merrill and Williams Sts. $40,000. Private plans.

**Pa., McKeesport**—Peters Packing Co., 922 Rose St., having plans prepared by C. Stattler, engr., Weehawken, N. J., 6 story and basement, 25 x 70 ft. addition to plant and garage, Rose St. $175,000.

**Pa., Meyersdale**—Savage Fire Brick Co., plans 1 story, 80 x 300 ft. plant, about 1 mi. from here. $50,000. F. W. Minch, Johnstown, secy. treas.

**Pa., Pittsburgh**—See "Buildings."

**Pa., Pittsburgh**—Caplan Grocery Co., 2106 Penn Ave., plans 4 story, brick warehouse. $45,000.

**Tenn., Knoxville**—University of Tennessee plans 60 x 70 ft. heating and power plant, two 350 hp. boilers.

**Ky., Benton**—Paducah Hosiery Mills, Paducah, plans 2 story, 100 x 120 ft. hosiery plant, Puryear St., here. $40,000.

**Ky., Louisville**—Ford Motor Co., Detroit, Mich., plans brick and steel assembly plant on 22 acre site, Western Parkway, here, 300 cars a day capacity. $1,000,000. Engineer and architect not selected.

**Ky., Owensboro**—I. H. and H. N. Robertson plan 1 story, 200 x 260 ft., warehouse, 9th St. $40,000.

**O., Canton**—Canton Hardware Co., 201 Market Ave. soon lets contract 4 story, 165 x 200 ft., brick warehouse and sales room, 3rd St. N. E. $165,000. Noted Feb. 1.

**O., Cleveland**—Gabriel Mfg. Co., c/o C. Foster, mgr., 1407 East 40th St., had plans prepared by H. E. Shimmin, 2031 Euclid Ave., 2 story and basement, 80 x 150 ft., brick, steel and timber factory. $60,000.

**O., Cleveland**—Ohio Carpet Cleaning Co., c/o H. Luscher, 5610 Cobleigh Court, having plans prepared by A. Sogg, 319 Hippodrome Bldg., 2 story, 30 x 100 ft., brick and timber factory, 7291 Quincy Ave. $40,000.

**O., Dayton**—F. A. Daudistel, 124 Illinois Ave., plans 2 story and basement, 80 x 110 ft., automotive engineering building, brick and steel, plain foundation, Wyoming and Highland Sts. About $75,000. Architect not selected.

**Ind., Lafayette**—J. F. Horner Automobile Co., 19th and Columbia Sts., plans 1 story, 40 x 130 ft. garage. $40,000.

**Ind., Pendleton**—Indiana Reformatory plans 1 story foundry. $40,000.

**Mich., Marquette**—Plans election in December to vote on $100,000 bonds for electric power plant on Dead River. Orbison & Orbison, 812 College Ave., Appleton, Wis., engrs.

**Ill., Chicago**—Blue Valley Creamery Co., 700 South Clinton St., plans 3 story, 81 x 179 ft. factory, fireproof, 1137-43 West Jackson St. $126,000. S. S. Joy, 2001 Pershing Rd., archt.

**Wis., Berlin**—Berlin Tanning & Mfg. Co. will rebuild tannery, 3 story, brick and concrete or mill construction, plain foundation. $50,000. Engineer and architect not selected.

**Wis., Hartford**—Bear Brand Hosiery Co. plans 2 story, brick and timber factory, plain foundation. $40,000. Engineer and architect not selected.

**Wis., Mondovi**—W. Hardy will soon take bids 2 story, 40 x 100 ft., brick, tile and concrete garage, plain foundation, $40,000. Private plans. Former bids rejected.

**Wis., Plymouth**—Plymouth Phonograph Co. plans 2 story and basement, 60 x 160 ft., brick and rein.-con. factory, plain foundation. $60,000. Engineer and architect not selected.

**Wis., Poskin**—D. & H. Sure Grip Brake Co. plans 2 story, 60 x 90 ft., brick, rein.-con. and steel factory, plain foundation. $50,000. Engineer and architect not selected.

**Wis., Prairie du Chien**—Parkinson & Dockendorff, archts., Linker Bldg., La Crosse, making preliminary plans 2 story, 72 x 132 ft., warehouse, brick and timber, plain foundation, here, for General Cigar Co., Portage. $50,000.

**Wis., Wisconsin Rapids**—Nekoosa-Edwards Paper Co., Port Edwards, plans addition to hydro-electric plant, increasing capacity from 2,800 to 5,800 hp. E. P. Gleason, c/o owner, engr.

**Minn., Little Falls**—Pike Rapids Power Co. plans hydro-electric plant at Pike Rapids, 5 mi. below here, incl. 45 ft. dam. $100,000.

**Kan., Arkansas City**—Ranney-Davis Mercantile Co. having revised plans prepared by W. L. McAtee, Johnson Bldg., 2 story and basement, 100 x 132 ft., rein.-con., brick and stone warehouse, 1st St. and 5th Ave. $100,000. Noted May 31.

**Kan., Kansas City**—Oct. 23, to vote on $2,000,000 bonds improvements to electric light plant. R. L. McAlpine, Kansas City, engr.

**Mo., Kansas City**—Kansas City Light & Power Co., completed plans 1 story, 160 x 180 ft., brick and rein.-con. garage, 19th and Charollette Sts. $90,000. Private plans.

**Mo., Norborne**—See "Waterworks."

**Ark., Jonesboro**—H. Bosler, mayor, C. B. Gregg, et. al., plan to construct cotton mill, will be known as Jonesboro Cotton Mills Inc. $600,000.

**Tex., Houston**—Houston Transfer Co., 800 Washington St., plans concrete warehouse. $150,000. Architect and engineer not announced.

**Tex., Houston**—Schoots Bakery, Washington Ave., having plans prepared by R. D. Steele, engr. and archt., 1st Natl. Bank Bldg., bakery and warehouse. $50,000.

**Okla., Sayre**—See "Waterworks."

**Wash., Everett**—Weyerhaeuser Timber Co., Bayside, plans lumber mill. $250,000.

**Calif., Los Angeles**—See "Buildings."

**Calif., San Francisco**—Western Vacuum Ice Co., 235 Montgomery St., having plans prepared by H. H. Meyers, Kohl Bldg., 1 story, 65 x 110 ft. ice plant, 40 ft. high, and 1 story, 35 x 75 ft. warehouse, 30 ft. high, both rein.-con., vicinity of Brannan and 8th Sts.

**Calif., Redwood City**—Pacific Portland Cement Co., Pacific Bldg., San Francisco, making plans cement plant, incl. railroad, wagon roads and dredging work. First unit will have 1,200 bbl. per day capacity. Private plans.

**Que., Windsor**—Messrs. Kilgour Bros. plan 2 story, 90 x 130 ft. brick factory. $250,000.

**Ont., Meaford**—Hydro Electric Power Comn., 110 University Ave., Toronto, plans plant here. $500,000. F. A. Gaby, ch. engr.

**Ont., St. Catharines**—Garden City Paper Co., Merritton, plans plant, here. $400,000. W. J. Trimble, 54 University Ave., Toronto, engr.

**Ont., Toronto**—Boake Mfg. Co., Dartnell Ave., plans brick factory, Ranleigh Ave. $150,000. Engineer and architect not announced.

## BIDS DESIRED

**Pa., Ambridge**—Standard Seamless Tube Co. taking bids 1 story, 80 x 500 ft. and 20 x 80 ft. steel addition to plant. Private plans.

**Pa., Oil City**—Reimann Co., 5 East Front St., will build 2 story, 136 x 198 ft. brick, steel and tile garage, Front St., $65,000. Work will be done by separate contracts. Private plans.

**Pa., Phila.**—Sept. 21, by Vice President of Amer. Ice Co., 121 North Broad St., 3 story, 57 x 150 ft. addition to plant, 17th and Washington Sts. $80,000. C. L. Weir, 41 East 42nd St., New York City, archt.

**Pa., Phila.**—Sept. 25, by Ballinger Co., engrs., 12th and Chestnut Sts., 2 story, 50 x 266 ft. rein.-con., brick and steel plant, plain foundation, Marshall St. between Oakdale and Harold Aves., for Hardwick & Magee Co., 1220 Market St. $150,000.

**Pa., Pittsburgh**—J. E. Dwyer, archt., Forbes Murray Bldg., will build and award separate contracts for 1 story, 60 x 180 ft. garage, Forbes St., for A. J. Diebold, 5621 Aylesboro Ave. $40,000.

**Ky., Louisville**—Oct. 9, by D. X. Murphy & Bro., archts., Louisville Trust Bldg., 1 story, 80 x 80 ft. brick laundry, Eastern Parkway, for St. Josephs Infirmary, 4th St. $60,000. Noted June 14.

**Mich., Detroit**—A. Kahn, archt., 1000 Marquette Bldg., taking bids 1 story, 193 x 208 ft. rein.-con., brick and steel foundry and warehouse, plain foundation, Russell St., for Great Western Smelting & Refining Co., Russell St.

**Wis., Fond du Lac**—Schmidt, Garden & Martin, archts. and engrs., 104 South Michigan Ave., Chicago, taking bids 1 and 2 story, 62 x 120 ft., brick and concrete power house, plain foundation, for St. Agnes Hospital, 390 East Division St. Noted June 7.

**Wis., Milwaukee**—Voelz & Siebert, archts., 86 Michigan St., taking bids 1 story, 47 x 120 ft., brick and concrete garage, plain foundation, 8th Ave. near Mitchell St. $40,000. Owner's name withheld.

**Wis., North Milwaukee**—North Milwaukee Fdry. Co., Commerce Ave., taking bids 1 story, 65 x 100 ft., brick and timber addition, plain foundation. $40,000. Private plans.

**Minn., Litchfield**—Sept. 28, by M. Mortenson, village recdr., power plant and waterworks system (1) new power house (2) rein.-con. chimney, 72 x 150 ft. (3) 500 kva. steam-engine driven generating unit, switchboard, etc. (4) boiler plant and piping incl. 250 hp. water tube boiler and stoker (5) water softening plant for boiler feed, 24,000 gal. daily capacity (6) wells and piping. Alternate bids on partial or complete power house, and on different types of chimney construction. $90,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, and E. D. Jackson, 403 Endicott Bldg., St. Paul, engrs. Noted June 21.

**Tex., Houston**—Bender Bros., Prince Theatre Bldg., taking bids 3 story, light manufacturing and storage plant, brick and concrete, Congress and Caroline Sts. $80,000. C. D. Hill & Co., Larendon Bldg., archts.

**Calif., Los Angeles**—Morgan, Walls & Morgan, archts., Van Nuys Bldg., receiving bids 2 story, 100 x 200 ft. milk plant, rein.-con., 1 story, 80 x 80 ft. boiler plant and 2 story, 93 x 200 ft. ice cream plant, Slausson Ave., for Crescent Creamery Co., 237 Winston Ave. Noted July 26.

## BIDS RECEIVED

**N. Y., Oswego**—See "Miscellaneous."

**Calif., San Francisco**—Roman Catholic Archbishop of San Francisco, 1100 Franklin St., 2 story and basement, concrete laun-

Industrial Works (Continued)

**dry, Van Ness and Filbert Sts., general contract from Fennell & Chisholm, 180 Jessie St. Noted Sept. 13.**

**CONTRACTS AWARDED**

**Mass., Bridgewater** — C. A. Lapworth, South and Crescent Sts., will build 1 story, 64 x 150 ft., webbing mill, brick and timber, plain foundation, by day labor. $50,000.

**Mass., Fall River**—Union Cotton Mfg. Co., 1 story, 28 x 300 ft., stone and brick shed, plain foundation, to Beattie & Cornell, North Quarry St.

**Mass., Willimansett (branch of Holyoke)**—B. F. Perkins & Son, 1 Crescent St., Holyoke, 2 story mill, brick and steel, Chicopee St., here, to Casper Ranger Constr. Co., 20 Bond St., Holyoke, $50,000.

**Mass., Worcester**—Hope Machine Co., 13 Hope Ave., 2 story, 72 x 100 ft., brick and timber addition to factory, plain foundation, to E. J. Cross Co., 82 Foster St., Worcester.

**R. I., Woonsocket** — Jules Desurmont Worsted Co., Fairmont St., 4 story and basement, 110 x 130 ft., rein.-con. and brick mill, plain foundation, Water St., to National Eng. Corp., 27 School St., Boston. Archts. est. $175,000.

**N. Y., Brooklyn**—Eighty-third St. Constr. Co., c/o H. A. Weinstein, archt. and engr., 375 Fulton St., 1 story garage, rein.-con., brick, steel and concrete, Cedar Pl., by day labor. $50,000.

**N. Y., New York** — Dykman Heights Realty Co. c/o Shampan & Shampan, archts. and engrs., 188 Montague St., Brooklyn, will build rein.-con., brick and steel garage, 213th St., here, by day labor. $100,000.

**N. J., Camden**—MacAndrews & Forbes, 3rd and Jefferson Sts., 1 story and basement, 69 x 180 ft. shop, rein.-con., brick and steel, to Barclay White Co., 1713 Sansom St., Phila., Pa., $100,000.

**N. J., Montclair**—Montclair Ice Co., 1 story plant, rein.-con., brick and steel, to J. S. Carlson Co., Inc., Walnut St. Archts. est. $100,000.

**Pa., Pittsburgh** — Pittsburgh Malleable Iron Co., 34th and Smallman Sts., 1 story, 95 x 260 ft. brick, steel and corrugated iron plant, 34th and Smallman Sts., to Conley & DeMey, 127 North Highland Ave. Engrs. est. $50,000. Noted Aug. 23.

**Ky., Hopkinsville**—Dark Tobacco Growers Co-operative Assn., 1 story, 130 x 585 ft. warehouse, to E. H. Hester, Hopkinsville. Archts. est. $45,000. Noted June 7.

**Ky., Mayfield** — Dark Tobacco Growers Co-operative Assn., Hopkinsville, 1 story, 130 x 352 ft. warehouse, here, to T. Cole, Paducah, Ky. Est. cost $40,000.

**O., Cleveland**—I. G. Kohn, 640 Guardian Bldg., 1 and 2 story, 60 x 126 ft., brick, steel and wood, garage and commercial building, 2027 East 105th St., to Gometz & Neshkes, 2233 East 89th St. $50,000. Noted Sept. 13.

**Mich., Detroit** — Texas Co., 17 Battery Pl., New York City, 1 story, 38 x 122 ft. warehouse and office and 32 x 100 ft. garage and power plant both concrete and brick, one 20 x 20 x 20 and one 25 x 28 x 28 steel tanks, four 10 x 10 x 38 tanks, Ferndale Ave., to McKelvey Constr. Co., 426 Hammond Bldg. Archts. est. $100,000.

**Ill., Chicago**—J. S. Hoffman, 219 North Franklin St., 4 story, 95 x 100 ft., warehouse, fireproof, 312-30 West Illinois St., to Broline-Nolan Co., 5 North La Salle St. Archts. est. $200,000.

**Ill., Edwardsville**—See "Buildings."

**Wis., Centuria**—Inderrieden Canning Co., 516 West Erie St., Chicago, will build 1 and 2 story, brick and timber cannery, plain foundation, here, by day labor. $65,000. Noted Aug. 2.

**Wis., Chippewa Falls**—C. R. Bigler, 14 East Central St., 1 story and basement, 68 x 124 ft., brick, tile and concrete warehouse and garage, plain foundation, to Schafer & Olson, 222 Bay St., Chippewa Falls. Archts. est. $40,000. Private plans.

**Wis., Monticello**—Bd. Educ., 1 story, 50 x 95 ft., boiler house for high school, brick and rein.-con., plain foundation, to Kallem & Steinman, Monticello, $40,000.

**Wis., Prentice**—Northern Publishing Co. will build 2 story, 60 x 82 ft., brick and concrete printing plant, plain foundation, by day labor. $40,000.

**Wis., Racine**—Racine Investment Co., 401 Lake Ave., 2 story and basement, 80 x 120 ft., brick and concrete garage, plain foundation, Lake St., to C. O. Johnson, 224 South La Fayette Ave. Archts. est. $50,000. Noted Sept. 13.

**Mo., Kansas City**—Kansas City Power & Light Co., 1330 Grand Ave., will build 1 story, 80 x 140 ft., brick power plant, 6th St., by day labor. $60,000.

**Mo., St. Louis**—P. H. Fuchs, 3126 Locust St., 1 story, 89 x 117 ft., brick and rein.-con. garage, Bway., to W. M. Rideout, Tower Bldg. Archts. est. $40,000.

**Mo., St. Louis**—Heine Boiler Co., 5319 Marcus Ave., 1 story, 80 x 139 ft. boiler factory, brick and concrete, Marcus St., to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Archts. est. $50,000.

**Mo., St. Louis**—F. Medart Mfg. Co., 2nd and Potomac Sts., 1 story, 129 x 260 ft., wood working plant, brick and concrete, De Kalb St., to Woermann Constr. Co., Syndicate Trust Bldg. Archts. est. $100,000.

**Mo., St. Louis**—Tate Motor Car Co., 3111 Locust St., 3 story and basement, 135 x 165 ft., auto sales and service building, rein.-con., brick and stone, Washington St., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $250,000. Noted June 21.

**Tex., Dallas**—See "Buildings" under office, etc.

**Calif., Los Angeles**—Los Angeles Rubber Stamp Co., 131 South Spring St., 4 story and basement, warehouse and loft, rein.-con. and brick, Los Angeles and 15th Sts., to R. E. Milsap, Marsh-Strong Bldg., $128,500. Noted May 17.

# Buildings

**PROPOSED WORK**

**Mass., Northampton**—School—City having plans prepared by K. S. Putnam, archt., 78 Main St., 2 story and basement, on Hawley School grounds. $175,000.

**Mass., Westfield** — Library — Westfield Atheneum Com. having plans prepared by Coolidge & Carlson, 89 State St., Boston, and M. B. Harding, Westfield, new buildings, Elm and Court Sts. $150,000.

**R. I., Providence**—School—St. Raymonds Parish, North Main St., having plans prepared by A. J. Murphy, archt., 146 Westminster St., 2 story, brick and steel, North Main and Matilda Sts. $150,000.

**Conn., Hartford**—Apartment—J. Howard, Lancaster Rd., having plans prepared by Benson & Moses, archts., 30 Allyn St., 3 story, 50 x 110 ft., brick and stone, plain foundation, Capitol St. $50,000.

**Conn., Hartford**—Apartment and Store—W. Toubman, 260 Windsor Ave., plans 3 story, brick and steel, plain foundation, Windsor Ave. $150,000. Architect not selected.

**Conn., Hartford**—Office—F. D'Esopo Real Estate Corp., 484-492 Main St., plans remodelling 4 story, brick, plain foundation, Main St. $150,000. R. D'Avino, 647 Main St., archt.

**Conn., Hartford**—Office—G. F. Heublein, Inc., 45 High St., plans 10 story, 60 x 165 ft., rein.-con., brick and steel, plain foundation, Pratt and Trumbull Sts. $500,000. Architect not selected.

**Conn., Hartford**—Store—J. Fox & Co. Inc., 960-980 Main St., plans 6 story, rein.-con., brick and steel, plain foundation, Main and Talcot Sts. $500,000. Architect not selected.

**Conn., Hartford**—Theater—G. F. Heublein, Inc., 45 High St., plans 3 story, 134 x 150 ft., rein.-con., brick and steel, plain foundation, Church St. $500,000. Architect not selected.

**Conn., Terryville** — Hospital — Plymouth Memorial Hospital plans 2 story, rein.-con. and brick, plain foundation. $150,000. Colonial Trust Co., executors. Architect not selected.

**N. Y., Brooklyn**—Bank—Bank of Manhattan Co., 40 Wall St., New York City, having plans prepared 1 story, 50 x 100 ft., brick, steel and stone, St. Johns Pl., near Van Nostrand Ave. here. $150,000. Private plans.

**N. Y., Brooklyn**—High School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, Flatbush Ave. extension and Concord St., for James Madison High School, brick, steel and stone, Bedford Ave., here. $3,140,000.

**N. Y., College Point**—School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, for P. S. 27, brick, steel and stone, 13th St., here. $321,000.

**N. Y., Corona**—Schools—Bd. Educ., 500 Park Ave., New York, having sketches made by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St. Brooklyn, brick, steel and stone addition to P. S. 14, Fairview Ave., here, $674,000; plans brick, steel and stone school on Christie and Bronson Sts., here, $727,000.

**N. Y., Elmhurst**—School—Bd. Educ., 500 Park Ave., New York, plans brick, steel and stone school, 47th St., East Elmhurst, $997,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

**N. Y., Forest Hills**—School—Bd. Educ., 500 Park Ave., New York, plans brick, steel and stone school, Russell Pl., here, $727,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

**N. Y., Long Island City**—School—Bd. Educ., 500 Park Ave., New York, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, brick, steel and stone addition to P. S. 83, Vernon Ave., here. $376,000.

**N. Y., Maspeth**—School—Bd. Educ., 500 Park Ave., New York, plans school, here, $727,000. W. H. Gompert, Flatbush Ave. extension and Concord St., Brooklyn, archt. and engr.

**N. Y., New York**—Exchange—New York Telephone Co., 15 Dey St., soon takes bids alterations and rear addition, brick, steel and stone, 117 East 167th St. $800,000. McKenzie, Voorhees & Gmelin, 342 Madison Ave., archts. and engrs. Noted Sept. 13.

**N. Y., North Tonawanda**—High School—Bd. Educ. plans high school. To exceed $150,000. Architect not selected.

**N. Y., Woodhaven**—School—Bd. Educ., 500 Park Ave., New York, having sketches made by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, for school, here. $727,000.

**N. J., Asbury Park**—High School—S. Malkind, archt. and engr., 16 Court St., Brooklyn, preparing plans brick, stone and steel high school, here. $250,000. Owner's name withheld.

**N. J., Montclair**—School—Bd. Educ. having plans prepared by Starrett & Van Vleck, 8 West 40th St., New York City, brick, steel and stone. $150,000.

**N. J., Newark**—Apartment—J. Feldman, c/o R. Botelli, archt. and engr., 207 Market St., soon takes bids 4 story, brick, steel and stone. $150,000.

**N. J., Newark**—Schools—Bd. Educ. plans school in Weequahic Sect., $350,000; and bungalow type school for crippled children $168,000.

**N. J., Trenton**—Y. M. C. A., c/o F. S. Katzenback, chn. building com., Amer. Mechanics Bldg., having plans prepared by O. E. Goldschmidt, engr., 116 West 39th St., New York City, for brick, steel and stone building, Academy St., here. $400,000.

**Pa., Altoona**—Business—M. Lenson, 1007 14th St., and S. Brett, 902 Green Ave., plan 3 story and basement, 100 x 120 ft. concrete, brick and steel, 11th Ave. $150,000.

**Pa., Altoona** — Store and Office—J. J. Burns Jr., Commerce Bldg., plans 3 story and basement, 70 x 100 ft. rein.-con., brick and steel, 13th Ave. $150,000.

**Pa., Clairton**—School—Bd. Educ. having plans prepared by C. W. Bates, Jr., 12th St., Wheeling, W. Va., 3 story and basement, 180 x 280 ft., 3rd St., here. $350,000.

**Pa., Clearfield**—Hospital—Clearfield Hospital having plans prepared by Howard & Hatcher, Dubois, 2 story and basement, 42 x 90 ft. brick, steel and tile addition to hospital. $250,000.

**Pa., Pittsburgh** — Apartment — Terrace Court Apartments, c/o T. Hannah, archt. Publication Bldg., having plans prepared three 4 story and basement 32 x 164 ft. buildings, and 1 story 63 x 136 ft. garage, Shady and Douglas Sts. $250,000.

**Pa., St. Marys**—High School—St. Marys Roman Catholic Church having plans prepared by J. P. Brenot, Opera House, Oil City, 2 story and basement, 80 x 140 ft., brick, steel and tile. $150,000.

**Tenn., Knoxville**—Auditorium, etc.—City election Sept. 29, to vote on $75,000 bonds for construction of auditorium and market house.

**Ky., Harlan**—Office, etc.—Wallins Creek Collieries Co. plans rebuilding office and commissary, recently destroyed by fire. $150,000.

**Ky., Lyndon**—Home—Kentucky Childrens Home Society, 1086 Baxter St., Louisville, having plans prepared by Nevin, Wischmeyer & Morgan, Starks Bldg., Louisville, hospital building, boiler house and detention wards, brick, here. $150,000.

**O., Canton**—Hospital—Stark Co. plans 2 story hospital, brick, near Navarre St. $250,000-$300,000. Thayer & Johnson, New Castle, Pa., archts.

**O., Cleveland**—Apartment—G & R Realty Co., c/o A. Garber, 1105 Hippodrome Bldg.

Buildings (Continued)

having preliminary plans prepared by Braverman & Havermaet, Ulmer Bldg., 4 story and basement, brick, Strathmore Ave. $300,000.

**O., Cleveland** — Court House — Comrs. Cuyahoga Co. plan court house, probably 17 story, Public Sq. $2,000,000. J. H. Graham & Co., 8201 Cedar Ave., archts.

**O., Dayton**—Apartment—Lincoln Apartment Hotel Co. plans 14 story, 79 x 132 ft., rein.-con. and brick, plain foundation, 4th and Perry Sts. $2,000,000. H. F. Kumler, Reibold Bldg., pres. Architect not selected.

**O., East Youngstown** — High School — Plans to vote on $350,000 bonds for high school. W. Coursen, supt.

**O., Lakewood**—Store and Office—W. F. Thompson & Son Co., 5103 Euclid Ave., Cleveland, plans 3 story, 100 x 145 ft., brick, Detroit and Lakewood Aves. $150,000. Private plans.

**O., New Philadelphia**—Hotel—L. G. Wallick, Hotel Deshler, Columbus, plans hotel, about 5 story, fireproof, here. $150,000. Engineer and architect not selected. Noted Apr. 19.

**O., Steubenville**—Temple—Scottish Rite Masons having preliminary plans prepared by Peterson & Clark, Steubenville, 4 story and basement, 80 x 130 ft., stone, 4th St. $500,000.

**O., Toledo**—School—St. Thomas Aquinas Roman Catholic Church having revised plans prepared by Comes, Perry & McMullen, Renshaw Bldg., Pittsburgh, Pa., 2 story and basement, 65 x 104 ft., brick and steel. $150,000. Former bids rejected.

**O., Warren**—Court House—Trumbull Co. plans 4 story, on present jail site. $350,000.

**Mich., Detroit**—Mercantile—A. E. Harley, archt., 2631 Woodward Ave., preparing plans 3 story and basement, 80 x 160 ft. rein.-con., brick and steel, plain foundation, Howard St. $150,000. Owner's name withheld.

**Mich., Flint**—School—Bd. Educ. having plans prepared by Malcomson & Higginbotham, Industrial Bank Bldg., Detroit, 3 story and basement, 200 x 369 ft., rein.-con., brick and steel, plain foundation, $1,000,000.

**Mich., South Haven**—Hotel—Edgemere Hotel Corp., c/o Leichenko & Esser, archts., 38 South Dearborn St., Chicago, plans 3 and 6 story, 130 x 275 ft., North Shore Dr. $750,000.

**Ill., Chicago**—Apartment—J. J. Jensen, archt., 4815 North Lawndale Ave., preparing plans 3 story, 90 x 120 ft., rein.-con., brick and steel, Rosecoe St. near Crawford St. $150,000. Owner's name withheld.

**Ill., Duquoin**—Church—First Baptist Church rejected bids 2 story, 97 x 118 ft., brick, stone and concrete, $150,000. Will probably readvertise in spring. Noted Aug. 16.

**Wis., Madison**—Business, etc.—W. J. Taylor, 456 West Doty St., having plans prepared by E. A. Tough, Washington Bldg., 3 story, 150 x 200 ft., brick, rein.-con. and steel, plain foundation, State St. $150,000. Noted Aug. 31.

**Wis., Milwaukee**—Hotel—Hotel Wisconsin Realty Co., 172-80 3rd St., having revised plans prepared by Holabird & Roche, 104 South Michigan Ave., Chicago, and soon takes bids 12 and 15 story, 50 x 70 x 150 ft., brick and concrete, plain, concrete or wood pile foundation. $1,300,000. Noted July 5.

**Kan., Junction City**—Memorial Hall—City having preliminary plans prepared 2 or 3 story, brick and stone, plain foundation. $250,000. Engineer and architect not selected.

**Neb., Falls City**—Hotel—Falls City Hotel Co. had plans prepared by J. H. Croddock & Co., 315 South 15th St., Omaha, 4 story and basement, 92 x 130 ft., rein.-con., brick and stone. $150,000.

**Mo., Kirksville**—Store—Shryack Grocery Co., plans rebuilding 4 story and basement, rein.-con. and brick, recently destroyed by fire. $150,000. Engineer and architect not selected.

**Tex., Ft. Worth**—Municipal—Election in December to vote on $1,000,000-$1,500,000 bonds for municipal building on Throckmorton St. Engineer and architect not announced.

**Okla., Okmulgee** — Hotel — Creek Hotel Co. having plans prepared by Smith & Senter, Okmulgee, 7 story, 125 x 200 ft., rein.-con. and steel, Cherokee St. $600,000. W. B. Pine, pres. Noted Mar. 8.

**Okla., West Tulsa** (Tulsa P. O.)—Hotel—Moss Bros. having plans prepared by C. P. Nieder, Empire Bldg., Oklahoma City, 4 story and basement, 48 x 140 ft., rein.-con., Main St. $155,000.

**Colo., Denver** — Apartment — Norman Apartments, Inc., 915 Central Savings Bank Bldg., having plans prepared by W. N. Bowman, Central Savings Bank Bldg., 6 story, 150 x 150 ft., rein.-con. and brick, Downing and Bayaud Sts. $500,000.

**Nev., Reno**—Hotel—Reno Hotel Co., c/o F. H. Whitton, constr. mgr., 369 Pine St., San Francisco, Calif., preparing preliminary plans 4 story, brick, here. $400,000-$500,000.

**Calif., Fillmore**—High School—Fillmore Senior High School Dist. having plans prepared by N. F. Marsh, Bway. Central Bldg., Los Angeles, 2 story, concrete or hollow tile. To exceed $150,000.

**Calif., Los Angeles**—Hospital—St. Vincents Hospital, 1151 Sunset Blvd., having plans prepared by J. C. Austin, Detwiler Bldg., for hospital, boiler and laundry plant, steel frame, Sunset Blvd. and Beaudry St. To exceed $750,000.

**Calif., Los Angeles** — Store and Loft — Robbins & Co., 3115 Maple St., having plans prepared by Norton & Wallis, archts., 716 South Spring St., 12 story, 42 x 165 ft., rein.-con., South Bway. $600,000.

**Calif., Los Angeles**—Store and Office—Pacific Southwest Trust & Savings Bank, 565 South Spring St., plans 75 x 100 ft. fireproof, 8th and Olive Sts. To exceed $750,000.

**Calif., San Diego**—Hospital—See "Contracts Awarded."

**Calif., San Francisco**—Office, etc.—Pacific Telephone & Telegraph Co., 333 Grant Ave., having preliminary plans prepared by E. V. Cobby, engr., 333 Grant Ave., office and exchange, steel frame, Bush St. between Grant Ave. and Kearny St. $1,000,000 or more.

**Calif., San Jose**—Store and Office—L. S. Moore, 470 South 3rd St., is head of syndicate which plans store and office building, probably 4 story, rein-con. $150,000. Architect not announced.

**Calif., Santa Clara** — School Annex — Roman Catholic Archbishop, 1100 Franklin St., San Francisco, having plans prepared by J. J. Donovan, 1916 Bway., Oakland, fireproof parochial school, here. $150,000.

**Calif., Woodland**—Lodge and Store—B. P. O. E., Woodland Lodge, had plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, 2 story, rein.-con., Bush and College Sts. $150,000.

### BIDS DESIRED

**R. I., Exeter**—Administration, etc.—State School Bd., Providence, taking bids 3 story, 70 x 200 ft., brick and concrete addition, plain foundation, at State School, here. $200,000. Noted Aug. 9.

**N. Y., Buffalo**—School—Oct. 3, by Bd. Educ., 1401 Telephone Bldg., altering and building 2 story and basement, rein.-con. and brick addition to P. S. 42, Grant St. $500,000. Associated Buffalo Architects, 232 Delaware Ave., archts.

**N. Y., Flushing**—Dormitory, etc.—Oct. 2 by W. H. Gompert, archt., Flatbush Ave. Extension and Concord St., Brooklyn, general construction masters house, dormitory buildings, infirmary and coal bin for power house, for Parental School, 1,700 ft. south North Hempstead Turnpike, here, for Bd. Educ., 500 Park Ave., New York City.

**N. Y., New York**—Sept. 28 by B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., repairing and altering west wing and west toilet tower, main building, at Metropolitan Hospital, Welfare Island, contr. (1) general construction and electrical work (2) plumbing and gas fitting (3) heating and refrigerating work.

**N. Y., Syracuse**—School—Oct. 8 by Bd. Contr. and Supply, improving 2 and 3 story, rein.-con., brick and steel school, Seymour St. Work consists of partly new building to be erected around old school, using some of present structure. $650,000. J. A. Randall, S A & K Bldg., archt.

**N. Y., Upper Flushing** (Flushing P. O.)—School—Oct. 2 by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, general construction P. S. 107, southerly side Franconia Ave. from 27th to 28th Sts., here, for Bd. Educ., 500 Park Ave., New York City.

**N. J., Trenton**—Oct. 9 by J. O. Hunt, archt., 219 East Hanover St., 4 story, brick and steel for Y. W. C. A., 141 East Hanover St. $600,000. W. F. Thompson, 342 Madison Ave., New York City, engr. Noted Mar. 29.

**Pa., Phila.**—Church and Sunday School—Sept. 27, by H. W. Castor, archt., St. Girard Bldg., 1 story and basement, 73 x 166 ft. limestone, brick and terra cotta, Oxford Ave. and Dyre St. for Frankford Methodist Episcopal Church, $275,000.

**Md., Salisbury**—High School—Sept. 28, by Eastern Shore State Normal School, 3 story and basement, 188 x 343 ft., rein.-con. and brick, sheet piling foundation. $300,000. Smith & May, Calvert Bldg., Baltimore, archts.

**N. C., Fayetteville**—Hotel—Oct. 8, by Directors Fayetteville Hotel Co., 8 story and basement, fireproof. S. S. Dixon, Fayetteville, and W. G. Rogers, Trust Bldg., Charlotte, archts. Noted Aug. 9.

**O., Cleveland**—Apartment—I. B. Rabb, Ulmer Bldg., taking bids and opens same about Sept. 26, 3 story and basement, 165 x 175 ft., brick and timber, East 77th St. near Hough Ave. $300,000. Braverman & Havermaet, Ulmer Bldg., archts. Noted Aug. 23.

**O., Cleveland**—Apartments—I. Shur, 203 Ulmer Bldg., taking bids and opens same about Sept. 26, three 2 story and basement, 64 x 103 ft., brick and timber, East 140th St. near Lake Shore Blvd. $175,000. Braverman & Havermaet, Ulmer Bldg., engrs. Noted July 19.

**O., Cleveland**—Bank and Office—Oct. 15, by Knox & Elliot, archts., 906 Engineers Bldg., 20 story, 132 x 168 ft., rein.-con., brick and steel, Ontario St. and St. Clair Ave., for Brotherhood of Locomotive Engineers, Engineers Bldg. $5,000,000. C. M. Clark, Engineers Bldg., engr. Noted May 21.

**Ill., Chicago** — Apartment — Huszagh & Hill, archts., 105 North Clark St., receiving bids 3 story apartment, Rogers Ave. and East Lake Terrace. $500,000. Owners name withheld.

**Ill., Chicago**—Apartment—A. H. Quitsow, archt., 11 South La Salle St., receiving bids 3 story and basement, 64 x 150 ft., fireproof, Winthrop near Greenlake Ave., for L. R. Stewart, c/o architect. $150,000.

**Ill., Evanston**—Apartment—D. J. Wallace, archt., 22 West Monroe St., Chicago, receiving bids 3 story, 185 x 300 ft., rein.-con., brick and steel, Central St., here, for J. N. Lott, c/o architect. $250,000.

**Minn., Waseca**—High School—Oct. 15, by Bd. Educ., 2 story and basement, brick and rein.-con., plain foundation. $350,000. W. B. Ittner, 911 Locust St., St. Louis, Mo., archt. and engr.

**Kan., Iola**—High School—Sept. 24, (change of date) by T. W. Williamson & Co., archts., 312 Central Natl. Bank Bldg., Topeka, 2 story and basement, 95 x 141 ft., rein.-con. and brick, for Bd. Educ. $150,000. Noted Aug. 31.

**N. D., Mandan**—High School—Sept. 27 (change of date) by Bd. Educ., 2 story and basement, 65 x 136 ft. rein.-con., brick, stone and tile. $150,000. G. R. Horton, Jamestown, archt. Noted Sept. 13.

**Mo., Sedalia**—Court House—Oct. 4, by W. E. Hulse & Co., archts, Hoke Bldg., Hutchinson, Kan., 3 story and basement, 97 x 135 ft., rein.-con., brick and stone, for Pettis Co. $350,000. Noted June 14.

**Calif., San Francisco**—Apartment—C. A. Meussdorffer, archt., Humboldt Bank Bldg., receiving bids 10 story, basement and subbasement, rein.-con., Washington St. near Gough St., for Two Thousand and Six Washington St. Inc. $500,000. Noted June 21.

### BIDS RECEIVED

**O., Geneva**—High School—Bd. Educ., 2 story and basement, 78 x 159 ft., rein.-con. and brick, from C. E. Heyser, Cleveland, $201,300. Noted Aug. 23.

**Calif., San Diego**—Army and Navy Y. M. C. A., concrete and steel building, from Campbell Building Co., Security Bank Bldg., $557,500. Noted Aug. 16.

### CONTRACTS AWARDED

**Mass., Ware**—High School—School Bd., 2 story, brick and steel, to Provencal Co., Main St., $150,000. Engrs. est. $160,000. Noted July 12.

**N. Y., Brooklyn**—Apartment—B. Feller, c/o M. A. Cantor, archt. and engr., 373 Fulton St., 4 story, 75 x 100 ft., brick, steel and stone, 77th St., by day labor. $150,000.

**N. Y. Brooklyn**—Apartment—Kraslow Building Co., Inc., c/o Shampan & Shampan, archts. and engrs., 188 Montague St., 14 story, 125 x 215 ft., brick, steel and stone, Ocean Ave. by day labor. $1,500,000.

**N. Y., Brooklyn**—Apartment—Nieblum Constr. Co., c/o Kleswetter & Hamburger, archts. and engrs., 186 Remsen St., will build 4 story, brick, steel and stone, Crown St. and Nostrand Ave., by day labor. $200,000.

**N. Y., New York**—Apartment—Brant Building Co., c/o Springsteen & Goldhammer, archts. and engrs., 32 Union Sq., 6 story, 100 x 150 ft., brick, steel and stone, West 175th St. and Bway., by day labor. $300,000.

**N. Y., New York**—Apartment—Brown Constr. Co., c/o G. F. Pelham, archt. and engr., 200 West 72nd St., 15 story, 82 x 83 ft., brick, steel and stone, 165 West 79th St., by day labor. $600,000.

Buildings (Continued)

**N. Y., New York**—Apartment—G. Graman, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, 100 x 160 ft., brick, steel and stone, Grand Concourse and 161st St., by day labor. $250,000.

**N. J., Atlantic City**—Hotel—F. B. Off, Hotel Brighton, 5 story and basement, rein.-con., brick, steel, granite, limestone, terra cotta and granite addition to Hotel Brighton, Illinois Ave., to H. Baton Co., 1713 Sansom St., Phila., Pa. To exceed $300,000. Noted Aug. 30.

**Pa., Phila.**—Office—General Accident Life & Fire Insurance Co., 4th and Walnut Sts., 11 story, basement and sub-basement, 84 x 99 ft. and 3 story, 22 x 60 ft. rein.-con., brick and steel, 404-414 Chestnut St., to H. J. Homan & Co., 1703 Chestnut St., $460,000.

**Pa., Phila.**—School—J. D. Cassell, supt. buildings of Bd. Educ., 19th and Chestnut Sts., altering and building 3 story and basement, 2 wings, 36 x 110 ft. and 37 x 131 ft. rein.-con., brick and steel addition to David Landreth School, 23rd and Federal Sts., to McCloskey & Co., 1620 Thompson Ave., $277,429. Noted Aug. 31.

**Pa., Villanova**—Dormitory—Cardinal D. J. Dougherty, 1723 Race St., Phila., 3 story and basement, 70 x 208 ft., here, for Villanova College, to R. C. Ballinger Co., 925 Chestnut St., Phila., $230,000.

**Md., Salisbury**—Hotel—Wicomico Hotel Co., 4 story, to Consolidated Eng. Co., Calvert Bldg., Baltimore, $200,000. Noted Aug. 9.

**W. Va., Wheeling**—Cathedral—Catholic Diocese, 1 and 2 story, rein.-con. and brick, 13th and Eoff Sts., to R. R. Kitchen Co., Natl. Bank of W. Va. Bldg., $372,000. Noted Jan. 25.

**Miss., Biloxi**—Hotel—Buena Vista Hotel Co. 4 story, 164 x 240 ft., rein.-con., stucco and tile, pile foundation, to Underwood Contg. Co. Inc., Louisiana Bldg., New Orleans, La. Noted Aug. 9.

**La., Baton Rouge** — Theatre — Elks Theatre Co., 4 story, rein.-con. and steel, 3rd and Florida Aves., to Stewart-McGhee Constr. Co., Florida Ave. $182,000.

**Tenn., Memphis**—Office—Cotton Exch., 12 story, Exch. Bldg., South Front and Union Sts., to Kaucher-Hodges Co., Archts. est. $600,000. Noted May 3.

**Ky., Louisville**—Temple—Kosairs Assn., 7 story, temple, incl. 155 room hotel, auditorium, stage, etc., Bway., general contract to C. A. Koerner & Co., 318 East Burnett St., $700,000. Noted Sept. 13.

**O., Columbus**—Store and office—C. H. and A. D. Rowlands Co., 3rd and Broad Sts., 8 story and basement, 62 x 67 ft., rein.-con., and brick, High and Long Sts., to J. W. Heckart, Comstock Bldg., $400.000.

**O., Wapakoneta**—High School—Bd. Educ., 3 story and basement, 125 x 151 ft., rein.-con. and brick, to H. R. Blagg Co., 1229 East 3rd St., Dayton, $110,980. Engrs. est. $150,000. Noted Aug. 23.

**Mich., Detroit**—Office—See "Industrial Works."

**Ill., Chicago**—Apartment—M. Shugar, 4839 North Avers Ave., 3 story, 107 x 150 ft., rein.-con., brick and steel, 4415-27 North Whipple St., to H. Entin, 2116 Alice Pl. Archts. est. $150,000. Noted July 26.

**Ill., Chicago**—Apartment—M. Shugar, 4839 North Avers Ave., 3 story, 110 x 125 ft., fireproof, 4301-11 North Troy Ave., to H. Entin, 2116 Alice Pl. Archts. est. $150,000.

**Ill., Chicago**—Bank—Inlan State Bank, 4021 Milwaukee Ave., 2 story, 48 x 140 ft., rein.-con., brick and steel, 3973-85 Milwaukee Ave., to R. Sollitt & Son, 5 North La Salle St. Archts. est $150,000.

**Ill., Chicago**—Hotel—Realty Building & Constr. Co., 177 North State St., 3 story, 50 x 140 ft., rein.-con., brick and steel, 5047-49 Kenmore Ave., to A. T. Herlin, 6117 Evans Ave. Archts. est. $150,000. Noted Apr. 26.

**Ill., Edwardsville** — High School — Bd. Educ., 2 story and basement, rein.-con. and brick, incl. boiler house, general contract to J. E. Schweger, Edwardsville, $133,845; heating and ventilating to Elliott & Barry Eng. Co., 1426 Olive St., St. Louis, Mo., $26,218. Noted Aug. 9.

**Ill., Evanston**—Apartment—W. Legerlof and C. Magnuson, 204 West Washington St., 3 story, 100 x 140 ft., Center St. near Eastwood St., to R. Lundberg & Co., 5538 Glenwood Ave., Chicago. Archts. est. $150,000.

**Ill., Springfield**—Theatre—G. C. Hickox, Reisch Bldg., remodeling Chatterton Theatre 2 story, 37 x 57 ft., general contract to Alzina Constr. Co., Unity Bldg. Archts. est. $200,000.

**Wis., Green Bay**—Hospital, etc.—St. Josephs Orphanage, Route 6, 2 and 3 story, 42 x 150 ft., hospital, laundry and boiler house, brick and concrete, plain foundation, to Pinchard Bros., 605 St. George St. $150,000.

**Wis., Madison**—Hotel—Piper Bros. Co., 31 North Pinckney St., 10 story, 44 x 120 ft., brick, rein.-con. and steel, plain foundation, to Bailey-Kasson Co., 139 North Clark St., Chicago. Archts. est. $300,000. Noted Aug. 31.

**Wis., Milwaukee** — Apartment — G. F. O'Neil, 297 East Water St., 3 story and basement, 90 x 107 ft., brick, tile and concrete, plain foundation, Prospect Ave., to W. T. Buchholz Co., 840½ 36th St. and J. L. Stanage, 3216 Vliet St. Archts. est. $200,000. Noted Aug. 30.

**Wis., Milwaukee**—Business and Apartment—Statzer Granite Co., 723 Grand Ave., 3 story and basement, brick and concrete, plain foundation, Wells St., to Coddington Eng. Co., 290 3rd St. Archts. est. $150,000. Noted May 31.

**Wis., Wauwatosa**—Home—Evangelical Lutheran Kinderheim, East Milwaukee Ave., 3 story and basement, 80 x 167 ft., brick and concrete, plain foundation, West Main St., to Dahlman Constr. Co., 456 Bway., Milwaukee. Archts. est. $150,000. Noted Aug. 9.

**Minn., Duluth**—Apartment Hotel—Cascade Apartment Co. (Carlsted Bros.), 542 Builders' Exchange, Minneapolis, having plans prepared by Holstead & Sullivan, 410 Palladio Bldg., and will build by day labor, 3 story and basement, 95 x 135 ft., brick and tile, 1st Ave. W. and 3rd St., here. $225,000. This corrects report in Sept. 13 issue.

**Mo., St. Louis**—School—Bd. Educ., 911 Locust St., 3 story, brick and concrete, 23rd and Walnut Sts., general contract to Murch Bros., Ry. Exch. Bldg., $191,000. Noted Aug 30.

**Ark., El Dorado**—Hotel—G. W. James will build 4 story and basement, 100 x 125 ft., brick and rein.-con., plain foundation, by day labor. $300,000. Private plans.

**Tex., Dallas**—Office, etc.—Terminal Bldg. Corp., Southwestern Life Bldg., 19 story, 135 x 200 ft. office, 8-10 story, 16 x 200 ft. and 150 x 177 ft. warehouse units, concrete, steel, terra cotta and brick, 5 track subway for freight accomodations into warehouse, etc., to Watson Co., 1927 South Akard St., $5,000,000. Noted June 21, under Industrial Work.

**Tex., Denton**—High School—Bd. Educ. 2 story and basement, 85 x 125 ft., brick and stone, to J. T. Taylor Constr. Co., Burkburnett Bldg., Ft. Worth, $137,000. Engrs. est. $150,000. Noted July 19.

**Colo., Denver**—Office—Capitol Life Insurance Co., Colorado Theatre Bldg., general contract one wing of 2 story and basement 160 x 250 ft., rein.-con. and marble, to F. J. Kirchof Constr. Co., 718 Lawrence St., $130,000. Noted Aug. 23.

**Calif., Los Angeles**—Office—Standard Oil Co., Standard Oil Bldg., 8 story, fireproof, 10th and Hope Sts., to Foundation Co., Higgins Bldg., and 58 Sutter St., San Francisco, percentage basis. About $1,500,000. Noted May 17.

**Calif., Monterey**—Hotel—R. Jacks, c/o O'Brien Bros., Inc., archts., 315 Montgomery St., San Francisco, 3 and 4 story, rein.-con. and hollow tile, to J. L. Hansen, 251 Kearny St., San Francisco, $500,000. Noted July 12.

**Calif., San Diego**—Hospital—St. Josephs Hospital, 7 story, fireproof, to W. E. Kier Constr. Co., 1st Natl. Bank Bldg., $564,000. Ultimate plans include 125 ft. wing addition, costing $400,000. Noted July 5.

**Calif., Santa Monica**—Hotel and Apartment—Miramar Hotel Co., 4 story and basement, brick, concrete and tile, to Gutleben Bros., I. W. Hellman Bldg., Los Angeles, to exceed $200,000.

**Calif., Stockton**—Home—San Joaquin Co., 2 story, concrete, to F. Tucker, 321 North Sierra St., $154,879. Noted Aug. 23.

# Federal Government Work

### PROPOSED WORK

**Mass., Hingham**—Repairs to Seawall—Spec. 4908—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans repairs to seawall of slip; here.

**N. J., Lakehurst**—Remodeling, etc.—Spec. 4906—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans remodeling quarters and building boathouse, here.

**Va., Dahlgren**—Well and Pump House—Spec. 4904—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans well and pump house, here.

**N. C., Poyners Hill**—Boathouse, etc.—Spec. 4907—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans boathouse, cistern and remodeling quarters, here.

**Tenn., Memphis**—Sub-Post Office—Treas. Dept., Wash., D. C., rejected bids sub-Post Office, here. Plans will be revised and work readvertised. Noted Aug. 30.

**Calif., Livermore** — Hospital — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., had revised plans prepared for U. S. Veterans Hospital, here. F. Holmes, dir. Noted Apr. 19.

**H. T., Pearl Harbor**—Piers and Wharf—Spec. 4799—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids rein.-con. piers and wharf at Submarine Base, here. Noted Aug. 23.

**H. T., Pearl Harbor**—Storehouse—Spec. 4859—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon receives bids 1 story, 120 x 480 ft. storehouse, steel and frame, at Naval Operating Base, here. Noted June 14.

**Porto Rico, San Juan**—Quarters—Spec. 4909—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans double quarters, here.

### BIDS DESIRED

**Me., Bar Harbor** — Garage, etc. — Spec. 4900—Oct. 10, by Bureau Yards & Docks, Navy Dept., Wash., D. C., garage and repairs to administration building at Radio Station, here. Noted Aug. 30.

**Conn., Bridgeport**—Dredging—Oct. 17 at office U. S. Engineer, Providence, R. I. dredging in harbor, here; adv. E. N.-R. Sept. 20.

**Pa., Phila.**—Repairs to Roof—Oct. 1, by Treas. Dept., Wash., D. C., repairs to roof, etc., U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.

**Ga., Dawson**—Post Office—Oct. 17, by Treas. Dept., Wash, D. C., construction of U. S. Post Office, here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Sept. 20.

**Fla., Jacksonville**—Oct. 1, by F. Brown, clk. Duval Co., clearing Dunns Creek and Baldwin Bryceville Rds., constructing 2 wooden bridges.

**La., Carville** — Buildings — Oct. 16, by Treas. Dept., Wash., D. C., construction, except mechanical equipment of additional buildings, incl. patients cottages, infirmary, recreation building, kitchen and mess hall, all terra cotta and stucco, storehouse and officers quarters, timber construction, at National Home for Lepers, here. J. A. Wetmore, acting superv. archt.; adv. E. N.-R. Sept. 20.

**La., Carville**—Mechanical Equipment, etc.—Oct. 16, by Treas. Dept., Wash., D. C., mechanical equipment for additional buildings, incl. infirmary, patients cottages, recreation building, kitchen, mess hall, store house, and officers quarters; extension and remodeling outside services incl. heating, electric, water supply, sewage disposal refrigeration, etc., and constructing power house complete incl. mechanical equipment, National Home for Lepers, here. J. A. Wetmore, acting superv. archt.

**Ky., Louisville**—Steel and Iron Work—Sept. 24, at office U. S. Engineer, P. O. Box 72, steel and iron work for power house, Lock and Dam 44, Ohio River.

**O., Cincinnati**—Pontoons, etc.—Oct. 20, at office U. S. Engineer, Cincinnati, steel pontoons and riveted steel pipe; adv. E. N.-R. Sept. 20.

**Ind., Newburg**—Dwellings—Oct. 18, at office U. S. Engineer, P. O Box 72, Louisville, Ky., lockkeepers dwellings at Dam 47, Ohio River, here; adv. E. N.-R. Sept. 20.

**Ill., Chicago**—Catamarans, etc.—Nov. 1, at office U. S. Engineer, 537 South Dearborn St., catamarans and pipe for 15 in. hydraulic pipe line dredge; adv. E. N.-R. Sept. 20.

**Ia., Waterloo**—Extension, etc.—Oct. 8, by Treas. Dept., Wash., D. C., 1 story, 41 x 52 ft., brick extension, 19 x 28 ft. concrete mailing platform and extension to concrete driveway U. S. Post Office and Court House, here. J. A. Wetmore, acting superv. archt.

**Ark., North Little Rock**—Building, etc.—Oct. 16 by F. Hines, dir. U. S. Veterans Hospital, at office Quartermaster General, 2306 Munitions Bldg., Wash., D. C., for disturbed patients building, 2 continued treatment buildings, recreation building, tuberculosis cottage, male attendants quarters, additions to nurses quarters, kitchen and mess, all rein.-con. brick and tile; together with road, water, sewer and electric lines serving same, at U. S. Veterans Hospital 78, here. Adv. E. N.-R. Sept. 20.

**Wash., Puget Sound**—Radio Masts—Spec. 4897—Oct. 17, by Bureau Yards & Docks, Navy Dept., Wash., D. C., three 200 ft. radio masts, here. Noted Aug. 16.

**H. T., Pearl Harbor**—Extension—Spec. 4910—Nov. 7, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extension for battery storage and overhaul, Submarine Base, here. Noted Sept. 13 under Spec. 4761.

Federal Government Work (Continued)

**BIDS RECEIVED**

**Mass., Boston**—Flooring—Treas. Dept., Wash., D. C., flooring, mechanical equipment, renovating and remodeling, in U. S. Post Office and Sub-Treasury Bldg., here, (1) work in connection with 3rd floor (2) work in connection with 4th floor from F. J. Low, 14 Everett Ave., Chelsea, (1) $79,000 (2) $39,000. Noted Aug. 23.

**Ill., Rock Island**—Lumber—U. S. Engineer, furnishing 237,000 ft. Douglas fir for use at Le Claire Canal Lock, etc., from G. T. Mickle Lumber Co., 30 North La Salle St., Chicago, $5,037. Noted Aug. 30.

**Arizona** — Road — E. S. Wheeler, dist. engr., U. S. Bureau Pub. Rds., Dept. Agriculture, 242 West Washington St., Phoenix, constructing 15.583 mi. Prescott-White Spar Forest Highway, Prescott National Forest, Yavapai Co., from Lee Moor Contg. Co., Two Republics Bldg., El Paso, Tex. (Condition "A" alternate). $462,907. Noted Aug 30.

**Calif., Oakland**—Dredging—U. S. Engineer, Custom House, San Francisco, dredging Areas A, 475,000 cu.yd., B, 150,000 cu.yd. and C, 150,000 cu.yd. in Harbor, here, from Amer. Dredging Co., 255 California St., San Francisco, $0.232 per cu.yd. Noted Aug. 16.

**CONTRACTS AWARDED**

**Conn., Norwalk**—Dredging—U. S. Engineer, Providence, R. I., dredging 500,000 cu. yd. in Harbor, here, to J. S. Packard Dredging Co., Turks Head Bldg., Providence, R. I., $89,321. Noted Sept. 13.

**N. Y., New York**—Dredging, etc.—U. S. Engineer, 616 Army Bldg., dredging and rock removal Area 2, New York and New Jersey Channels, to E. Breyman, 17 Battery Pl., $577,343. Noted Aug. 23.

**D. C., Wash.** — Repairing Roof — Spec. 4902—Bureau Yards & Docks, Navy Dept., Wash., D. C., repairing roof of Naval Hospital, to Ironclad Roofing Co., 1416 F St. N.W. $3,221 (45 days). Noted Sept. 13.

**La., New Orleans**—Earthwork—U. S. Engineer, earthwork, to Union & Grau, New Orleans, Lake Borgne Levee, $2,900; to H. A. Schoenberger, Triumph; Lake Borgne Levee, $3,920, to Lower Coast Constr. Co., 122 Chartres St., Atchafalaya Dist., $75,320.

**Mich., Ludington**—Superstructure—U. S. Engineer, Milwaukee, Wis., removing timber superstructure and constructing concrete superstructure, here, to S. M. Siesel Co., 160 Ogden Ave., Milwaukee, Wis., $149,690. Noted Sept. 6.

**Mich., Sault Ste. Marie**—Dredging—U. S. Engineer, 337 Federal Bldg., Detroit, dredging in St. Marys River, at Vidal Shoals, above the Locks, to Great Lakes Dredge & Dock Co., 129 West Congress St., Detroit, 4,500 cu.yd. submarine rock excav. $8.87. Noted Sept. 6.

**Ill., Chicago**—Cement—U. S. Engineer, 537 South Dearborn St., 2,000 bbl. portland cement, to Universal Portland Cement Co., 210 South La Salle St., $2.50.

**Wyoming**—Road—W. J. Johnson, dist. engr., U. S. Bureau Pub. Rds., 301 Custom House, Denver, Colo., grading 4.6 mi. Dayton-Steamboat National Forest Rd., Sheridan Co., here, 9,592 cu.yd. rock and 43,328 cu.yd. common excav., etc., to J. E. Johnson, Sheridan, $47,919. Noted July 26.

**Mo., Excelsior Springs**—Hospital—Spec. 4887—Bureau Yards & Docks, Navy Dept., Wash., D. C., addition to administration, subsistence and ward buildings, at U. S. Veterans Hospital, here, to Jones Eng. and Constr. Co., Inc., 315 Courtenay Bldg., Omaha, Neb., $99,590. Noted Sept. 13.

**Wash., Port Townsend**—Water Tank, etc. —Treas. Dept., Wash., D. C., water tank, underground water system and salt water system for fire protection, U. S. Quarantine Station, here, to J. T. Lillis Co., 130 Taylor St., $23,900.

**Wash., Seattle**—Dredging—U. S. Engineer, Burke Bldg., removal of 399,000 cu. yd. earth along north side Lake Washington Canal from Locks to Puget Sound, overdepth 63,000 cu.yd., and removal 978,000 cu. yd. from canal from Locks out to Puget Sound, to Puget Sound Bridge and Dredging Co., Central Bldg., $278,779. Noted Aug 23.

**California** — Road — U. S. Bureau Pub. Rds., Dept. Agriculture, 881 Mills Bldg., San Francisco, clearing and grading Big Bear Valley Rd. extension, San Bernardino Co., 50,900 cu yd. excav., 1,100 lin.ft. 18 in. corrugated pipe, etc., to H. M. Henning, Eagle Rock, $61,882. Noted Sept. 6.

**Calif., San Diego**—Roads and Walks—Spec. 4901—Bureau Yards & Docks, Navy Dept., Wash., D. C., roads and walks at Marine Barracks, Naval Operating Base, here, to H. H. Peterson, 356 Sorecke's Bldg., $11,531 (90 days). Noted Aug. 30.

**Calif., San Diego**—Storehouse—Spec 4809—Bureau Yards & Docks, Navy Dept., Wash., D. C., paint and oil storehouse, here, to Wright Bros., 4581 Edgeware Rd., $7,116 (90 days). Noted Aug. 23.

**H. T., Pearl Harbor**—Bins and Trestle—Spec. 4772—Bureau Yards & Docks, Navy Dept., Wash., D. C., 12 storage bins and 1 trestle at Naval Operating Base, here, to R. E. Wooley, 305 James Campbell Bldg., Honolulu, $49,202. Noted Aug. 2.

## Miscellaneous

**PROPOSED WORK**

**Elimination of Grade Crossing—Niagara Falls, N. Y.**—City making plans eliminating grade crossing on New York Central and Hudson River and Grand Trunk Railroads, North Main St. $650,000. W. McCulloh, Gluck Bldg., engr.

**Subway—Rochester, N. Y.**—Plans subway under north side Main St. at Clinton St., for pedestrian traffic. $80,000.

**Stadium—Pittsburgh, Pa.**—University of Pittsburgh, Bigelow Blvd. and Parkman Ave, having plans prepared rein.-con. and steel athletic stadium, 65,000 seating capacity $1,500,000. F. W. Hindman, Columbus, O., engr.

**Underpass—Columbia, Tenn.** — Louisville & Nashville R.R. Co., Louisville, Ky., making plans underpass for elimination of grade crossing on Hampshire Pike, near here. W. H. Courtenay, ch. engr.

**Observatory—Alliance, O.**—Mt. Union College plans astronomical observatory. $35,000.

**Elimination of Grade Crossings—Toledo, O.**—City plans elimination of 14 grade crossings by overhead plan. Election in November to vote on $3,000,000 bonds. W. D. Hudson, Toledo, engr.

**Tunnel—Toledo, O.**—See "Streets and Roads."

**Golf Course—Appleton, Wis.**—Appleton Golf Club Assn. making plans 9 or 18 hole golf course, club house, tennis courts, etc. $50,000. W. C. Jackson, 174 East Pearson St., Chicago, engr.

**Transmission Line—Hustisford, Wis.**—Wisconsin Power & Light Co., Gay Bldg., Madison, plans 9 mi. transmission line from here to Horicon, 13,000 volt, 3 phase. $25,000. Engineer not selected.

**Gas Container—Sheboygan, Wis.**—Wisconsin Pub. Serv. Corp., having plans prepared gas container and holder of 1,000,000 or more cubic feet. R. B. Brown, 182 Wisconsin St., Milwaukee, engr. Noted Sept. 6.

**Transmission Lines—Missouri**—Arkansas-Missouri Power Co., Carruthersville, soon lets contract transmission lines from Blytheville, Ark., to Carruthersville, Hayti, Kennett and Rector, Mo.; new distribution lines in Carruthersville, Blytheville and Kennett; 600 kw. diesel unit in Carruthersville plant. $308,400. Private plans.

**Streets Lighting—St. Joseph, Mo.**—City making preliminary plans changing 731 arc street lights to incandescent lights and adding 500 incandescent lights and 262 white way standards and necessary wiring, etc. $90,000.

**Flood Prevention—San Antonio, Tex.**—Plans election in November to vote on $2,850,000 bonds for flood prevention, incl. retention dams or straightening river winding through city or both on modified basis. D. D. Harrigan, city engr.

**Dredge—Portland, Ore.**—Port of Portland, Spalding Bldg., having plans prepared for dredge to be equipped with four 750 hp. Diesel engines and 30 in. suction and discharge pipe. J. H. Polhemus, gen. mgr. G. B. Hegardt, Stark St. Dock, engr.

**Elimination of Grade Crossing—San Jose, Calif.**—Oct. 23, to vote on $100,000 bonds constructing necessary structures for separation of grades at intersection of West Santa Clara St. and Southern Pacific right of way. W. Popp, city engr.

**Piers and Sheds—San Francisco, Calif.**—State Bd. Harbor Comrs., Ferry Bldg., having plans prepared three 386 x 600 ft. piers and sheds, wood piles with concrete covering, China Basin, to be known as Piers 48, 50 and 52. $1,000,000 each. F. G. White, ch. engr.

**Underground Conduits—Outremont, Que.**—Soon takes bids underground conduits, $45,544. E. T. Sampson, city, clk.

**Power Lines—Bayfield, Ont.**—Ontario Hydro Comn., London, plans 15 mi. line from here to Clinton. $35,000.

**Arena, Grand Stand, etc.—London, Ont.**—Western Fair Bd., Dominion Savings Bldg., plans arena, $200,000, extensions to grand stand and alterations to horticultural and art buildings, $100,000.

**BIDS DESIRED**

**Fill—Salisbury Beach** (Newburyport P. O.), **Mass.**—Sept. 30, at office of Salisbury Beach Associates, filling about 20 acres of marsh. J. P. Titcomb, 111 Friend St., Amesbury, engr.; adv. E. N.-R. Sept. 20.

**Sand and Gravel—Albany, N. Y.**—See "Waterworks."

**Subway—Brooklyn, N. Y.**—Oct. 2, by Transit Comn., 49 Lafayette St., New York, subsurface railroad extending along and under 4th Ave. from 86th to 95th Sts., here. Former contract withdrawn. Noted Dec. 28.

**Railroad Duct Line—New York, N. Y.**—Sept. 28 by G. McAneny, chn. Transit Comn., 49 Lafayette St., railroad duct line at 239th St. yard, White Plains Rd. Rapid Transit R. R., Route 18, Agreement "CS".

**Sea-Wall—New York, N. Y.**—Sept. 25 by B. S. Coler, comr. Dept. Pub. Welfare, Municipal Bldg., sea-wall on east shore Welfare Island, New York City Dist.

**Crane—Newark, N. J.**—Riverside Steel Casting Co., Plank Rd. and Passaic River, in market for one 10 ton, 40 ft. span electric traveling crane.

**Grapple Dredge—Phila., Pa.**—Sept. 24, by G. F. Sproule, dir. Dept. Wharves & Ferries, steel hull grapple dredge. $120,000 to $200,000. Private plans.

**Mixer, Loader, etc.—Wash., D. C.**—Dist. Comrs., 509 Dist. Bldg., receiving bids for 1 mixer, 1 loader and 1 power grader for roadwork.

**Ditch—Digging Machine—Hickman, Ky.**—C. T. Bondurant, in market ditch-digging machine. $10,000.

**Paving Brick—Cleveland, O.**—Sept. 27, by city, 400,000 paving brick.

**Foundation—Milwaukee, Wis.**—Riesch & Hess, archts., 128 Wisconsin St., taking bids and opens same about Oct. 1, foundation for 1 and 2 story, 120 x 136 ft., brick and concrete church, 11th and Clarke Sts., for St. Boniface Congregation, c/o H. Stemper, pastor, 1118 Clarke St. $150,000 total. Noted Aug. 2, under "Buildings."

**Levee—Portage, Wis.**—Sept. 28, by Wisconsin State Levee Comn, enlarging, strengthening and protecting portions of Levee system, 12,000 cu.yd. earth fill, 5,000 cu.yd. stone rip rap, 6,000 cu.yd. brush mattress shore protection. H. V. Tennant, Portage, engr.

**Concrete Mixer—Wichita, Kan.**—L. L. Simpson, 1157 New York Ave., taking bids power concrete mixer.

**Cement, etc.—Dallas, Tex.**—A. Hawkins, P. O. Box 1002, receiving bids 50,000 cu.yd. concrete, 1,000,000 sq.ft. monolithic floor finish, 500,000 common brick backing, 1,400,000 face brick, 90,000 4 in. tile partitions, 100,000 6 in. tile partitions, 100,000 8 in. tile backing, 25,000 12 in. tile backing, for warehouse and office building. Bids on whole or part considered.

**Gas System—Fairfax, Okla.**—Sept. 24, by J. N. Fly, city clk., 7 mi. gas distribution system, 37,500 ft. 2-6 in. pipe, etc. $36,000. Former bids rejected. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Sept. 13.

**Steel Rails, etc.—California**—See "Railways."

**Steel Rails and Splice Bars—Eureka, Calif.**—J. Griffith, city supt. pub. wks., receiving bids furnishing steel rails and splice bars, alternate bids for 23,385 ft. 70 lb. T rails and 14,100 ft. same weight rails.

**Motor Street Flusher—San Francisco, Calif.**—L. S. Leavy, city purch. agt., receiving bids furnishing and delivering motor street flusher, for city and San Francisco Co.

**Transmission Line—Timmins, Ont.**—Hollinger Consolidate Gold Mines taking bids 80 mi. transmission line, 88,000 or 110,000 volt, from here to power house at Island Portage on Abitibi River. $1,000,000. Kerry & Chace, Ltd., 550 Confederation Life Bldg., Toronto, engrs.

**BIDS RECEIVED**

**Fire Alarm System—New York**—T. J. Drennan, fire comr., Municipal Bldg., New York City, Sept. 11, extension to fire alarm system, Boro of Queens, from J. Sudgen & Co., 100 5th Ave., New York City, $41,622. Noted Sept. 6.

**Grain Elevator—Oswego, N. Y.**—E. S. Walsh, supt. Pub. Wks., Albany, Sept. 11, constructing and equipping grain elevator and machine shop, here, Contr. 82, from James Stewart Co., Inc., 30 Church St., New York, $1,119,986. Noted Aug. 16.

**Heating and Ventilating Equipment—Louisville, Ky.**—Kosairs Assn., furnishing and installing heating and ventilating equipment for temple, Bway., from A. J. Anderson, 338 West Main St., $51,000.

Miscellaneous (Continued)

**Grade Separation—Lincoln Park** (Wyandotte P. O.), **Mich.**—Wayne Co. Rd. Comn., 1103 Real Estate Exch. Bldg., Detroit, excavating, filling, sodding, etc. for grade separation on St. Cosme Rd., incl. sewers, pumphouse and well, from Closser Bros., 3917 Lawton Ave., Detroit, $39,182.

**Tunnel—Colorado**—Moffat Tunnel Dist., 1731 Arapahoe St., Denver, Moffat Tunnel under James Peak, Gilpin and Grand Counties, from Uhlen & Co., 120 Bway., New York City, construction and maintenance camps $407,690, 30,000 cu.yd. earth excav. $1.75, 15,000 cu.yd. rock excav. $3, 175,500 cu.yd rock excav. main heading $16,365,000 cu.yd. rock excav. in railroad tunnel $7, Oregon fir permanent timber lining in railroad tunnel $155,000, ridgepole pine permanent timber lining in railroad tunnel $125,000, 5,000 cu.ft. concrete masonry in tunnel $16, 8,000 bbl. cement $5, 15,800 cu.yd. ballast in tunnel $2.50, etc., total $6,075,000. Noted Aug 9.

CONTRACTS AWARDED

**Enclosures—New York, N. Y.**—Transit Comn, 49 Lafayette St., enclosures for 3rd addition to shops at Lenox Ave. and 148th St. Yard, to D. C. Serber, 451 West 16th St., $948,773. Noted Sept. 13.

**Creosoted Piling, etc.—Mayersville, Miss.**—First & Second Rd. Dist., 2,650 lin.ft. creosoted piling, 6,120 ft. creosoted lumber and 50,000 ft. untreated lumber delivered at Flanton Station, to Creosote Materials Co., Q and C Bldg., New Orleans, La. Noted Aug. 2.

**Retaining Walls, etc.—Ohio**—State Hy. Dept., Columbus, will repair concrete and stone walls, and build new retaining walls at Buckeye Lake in Fairfield and Licking Counties. $40,000. Work will be done by day labor. P. R. Murray, dir. Noted Aug. 30.

**Cement—Newburg, Ind.**—Natl. Contract Co., Citizens Natl. Bank Bldg., Evansville, furnishing and delivering 5,000 bbl. portland cement for Dam 47 Ohio River, here, to Lehigh Portland Cement Co., Conway Bldg., Chicago, Ill. Engrs. est $15,000. Noted Aug. 23.

**Revetment—Illinois**—Cleveland, Cincinnati, Chicago & St. Louis Ry., Union Central Bldg., Cincinnati, 2 mi. revetment along bank of Ohio River and railroad tracks between Cairo and Mound City, to Wood Bros. Constr. Co., Lincoln, Neb. Engrs. est. $25,000. Noted Sept. 6.

**Generators and Street Lighting System—Kewanee, Ill.**—To Midwest Engine Co., Anderson, Ind., one 1,300 kw. and one 1,500 kw. turbo generator, $36,376; to Merkle Mchy. and Contg. Co., 1733 Walnut St., Kansas City, Mo., miscellaneous machinery and street lighting system, $73,900. Noted May 24 under "Industrial Work."

**Portland Cement—St. Paul, Minn.**—For 20,000 bbl. portland cement for Mississippi River conduit, 5,000 bbl. each to Corning Donohue Brick Co., 614 Ryan Bldg. and St. Paul Builders Materials Co., 605 Ryan Bldg., 10,000 bbl. to Speakes Co., Griggs and Fuller Sts., all $2.80 per bbl. net, delivered. Noted Aug. 30, under "Waterworks."

**Grain Elevator—Pittsburgh, Kan.**—C. Hotz & Son, first unit grain elevator, 170,000 bu. (capacity will be doubled at later date), to Southwest Eng. Co., Woodruff Bldg., Springfield, Mo. $35,000.

**Marine Cables—St. Louis, Mo.**—Union Electric Light and Power Co., 12th and Locust Sts., laying 12 marine cables on Mississippi River bed carrying 12,000 kw. of power connecting Cahokia, Ill. power plant with St. Louis, Mo., station, to Fruin-Colnon Constr. Co., Merchants Laclede Bldg. Engrs. est. $156,000.

**Cement—Merced, Calif.**—Merced Irrigation Dist., 6,000 bbl. cement, to H. Cowell Lime & Cement Co., 2 Market St., San Francisco, $3.79 per bbl. Noted Aug. 23.

**Subway—Sacramento, Calif.**—Pedestrial subway through 12th St., to Frederickson & Shannon, Cory Bldg., Fresno, $22,750. Noted Mar. 22.

**Subway—Sacramento, Calif.**—City Comrs., portion of subway through levee at 16th and B Sts., to Davison & Nicholsen, 324 West Lafayette St., Stockton, $82,000. Southern Pacific R.R. Co., will bear portion of cost, and handle remaining portion of work. Noted Aug. 30.

**Road Material—Woodland, Calif.**—Yolo Co., 3,230 tons willite for Jefferson Blvd., to A. Teichert & Son, Ochsner Bldg., Sacramento, $11.62 per ton. Noted Sept. 13.

**Generators — Timmins, Ont.** — Hollinger Consolidated Gold Mines, Ltd., two 12,500 kva. electrical generators in connection with power development on Island Portage, to Canadian General Electric Co., 212 King St. W., Toronto, $250,000.

# OFFICIAL PROPOSALS

Bids: Sept. 27.

## Excavating Channel

Albany, N. Y., September 6, 1923.

Sealed proposals will be received by the Salt Water Bays Commission at the office of the State Engineer and Surveyor in the Telephone Building in Albany, N. Y. until 12 o'clock noon (daylight saving time) on Thursday, September 27, 1923, at which place and hour they will be publicly opened and read for excavating a channel connecting Moriches, Quantuck, Shinnecock and Peconic Bays, County of Suffolk, Long Island, N. Y., pursuant to the provisions of Chapter 686, Laws of 1923.

For excavating a channel connecting Moriches, Quantuck, Shinnecock and Peconic Bays, County of Suffolk, Long Island, N. Y.

Contract plans Sheets 1 to 6 inclusive.

Plans may be seen and detailed specifications, Engineer's estimates of quantities, proposal blanks, form of contract and bonds required and other information for proposers may be had at the offices of the State Engineer and Surveyor in the Telephone Building, Albany, N. Y. and at Pier 6, East River, New York City.

Blueprint copies of plans will be furnished by the State Engineer and Surveyor upon the receipt at his office in the Telephone Building, Albany, N. Y., of payment at the rate of fifteen cents (15c) per sheet. Refund will not be made for any blueprints which may be returned.

Monthly estimates will be paid of ninety per centum (90 per cent) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank or trust company in good credit within the state and payable at sight to the State Engineer for five per centum (5 per cent) of the amount of the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the State Engineer and Surveyor.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of the contract shall be in such sum as shall be fixed by the Salt Water Bays Commission, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work, according to the contract price, and an additional bond known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds co-insurance only will be accepted.

Each proposal must be addressed to the Salt Water Bays Commission, care of State Engineer and Surveyor, Telephone Building-Albany, N. Y.; and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the State for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Salt Water Bays Commission of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the regular manner if, in the judgment of the undersigned, the interests of the state will be enhanced thereby.

SALT WATER BAYS COMMISSION
By Dwight B. LaDu, Chairman.

Bids: Oct. 10.

## Reinforced Concrete Pavement

Belvidere, N. J.

Notice is hereby given that sealed bids will be received by the Board of Chosen Freeholders of the County of Warren for the Construction of Section No. 1 of the Phillipsburg-Belvidere Road in the County of Warren with a Reinforced Concrete pavement. The estimated amount of pavement required is 42,357 square yards.

Bids will be opened and read in public at the office of the said Board at the Court House, Belvidere, N. J., on Wednesday, October 10, 1923, at 11 o'clock A.M.

Drawings, specifications and forms of bid, contract and bond for the proposed work prepared by H. W. Vetter, County Engineer, and approved by the State Highway Commission, have been filed in the office of the said engineer at Belvidere, N. J., and of said State Highway Commission, Trenton, N. J., and may be inspected by prospective bidders during business hours. Bidders will be furnished with a copy of the blue prints of the drawings by the engineer on proper notice and a deposit of $10.00 which will be refunded upon return of same in good condition. Bids must be made on the standard proposal forms in the manner designated therein and required by the specifications, must be enclosed in sealed envelopes, bearing the name and address of bidders and name of road on the outside, addressed to the Board of Chosen Freeholders of the County of Warren, Belvidere, N. J., and must be accompanied by a statement from a surety company authorized to do business in New Jersey, stating that it will furnish the contractor with a satisfactory bond in the full amount of the contract in case he is found to be the lowest responsible bidder and is subsequently awarded the contract and a certified check for not less than 10 per cent of the amount bid provided said check shall not be less than $500.00 nor more than $20,000.00, made payable to H. O. Carhart, County Treasurer, and be delivered at the place and on the hour above named. The standard proposal form will be furnished on application to engineer.

By order of the Board of Chosen Freeholders of the County of Warren.

MORRIS S. FAUST.
Clerk.

Bids: Oct. 11.

## Filters and Pumping Machinery

Danville, Va.

Sealed proposals will be received by the City of Danville, Virginia, until 4 o'clock p.m., Thursday, October 11th, for furnishing the labor and materials for certain Water Works Improvements.

The work will be under two contracts, namely:

1. For the construction of a coagulating basin, aerator, and reconstruction of filters.
2. For high and low lift centrifugal pumping machinery and electric wiring.

Plans, specifications, form of proposal, bond and contract may be seen at the office of the Engineering Department of the City of Danville, and at the office of Hazen & Whipple, Civil Engineers, 25 West 43rd Street, New York City. Bidders will be furnished with a copy of specifications and blueprints of drawings, upon application and deposit of $10, which will be refunded upon the return of the same in good condition.

The right is reserved to reject any or all bids.

FRANK TALBOTT.
Superintendent Water Department.

Bids: March 18, 1924.

## 18-Mile Railway Construction Tenders

DOMINION OF NEW ZEALAND
Wellington, New Zealand.

Tenders close with the Public Works Tenders Board, Wellington, New Zealand, at noon on 18th March, 1924, for construction of 18 miles of railway including bridges station buildings, earthworks, approach road metalling, etc. Plans and specification may be inspected at the New York office of Engineering-News Record.